Scientific and Technical Information Control SEARCH REQUEST FORM 9-2-1 876.

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Application No. 10/589,875 Atty, Dkt. No. 074358-0104

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1, -31. (Cancelted)

32. (New) A compound according to formula 1;

$$\begin{array}{c} \text{Ring(1)]} & \stackrel{\stackrel{\stackrel{\sim}{\rightarrow}}{\rightarrow}}{\longrightarrow} \left[\text{Ring(3)} \right] & \stackrel{\stackrel{\sim}{\rightarrow}}{\longrightarrow} \left[\text{C}(R_1)(R_2) \right]_n & \stackrel{\stackrel{\sim}{\rightarrow}}{\longrightarrow} \left[R_n \right] \\ & \stackrel{\stackrel{\sim}{\rightarrow}}{\longrightarrow} \left[R_n \right] & \stackrel{\stackrel{\sim}{\rightarrow}}{\longrightarrow} \left[R_n \right] & \stackrel{\stackrel{\sim}{\rightarrow}}{\longrightarrow} \left[R_n \right] \\ & \stackrel{\sim}{\rightarrow} \left[R_n \right] & \stackrel{\stackrel{\sim}{\rightarrow}}{\longrightarrow} \left[R_n \right] & \stackrel{\stackrel{\sim}{\rightarrow}}{\longrightarrow} \left[R_n \right] & \stackrel{\stackrel{\sim}{\rightarrow}}{\longrightarrow} \left[R_n \right] \\ & \stackrel{\sim}{\rightarrow} \left[R_n \right] & \stackrel{\stackrel{\sim}{\rightarrow}}{\longrightarrow} \left[R_n \right] & \stackrel{\stackrel{\sim}{\rightarrow} \left[R_n \right] & \stackrel{\stackrel{\sim}{\rightarrow}}{\longrightarrow} \left[R_n \right] & \stackrel{\stackrel{\sim}{\rightarrow} \left[R_n \right] & \stackrel{\stackrel{\sim}{\rightarrow}} \left[R_n \right] & \stackrel{\stackrel{\sim}{\rightarrow}} \left[R_n \right] & \stackrel{\stackrel{\rightarrow}}{\rightarrow} \left[R_n \right] & \stackrel{\stackrel{\sim}{\rightarrow}} \left[R_n \right] & \stackrel{\stackrel{\sim}{\rightarrow}} \left[R_n \right] &$$

wherein

existion publicit matter n is J: . Ring(1) is of formula

wherein -X may be absent or denotes substitution with 1-4 substituents X that are independently chosen from halogen, C1-C4 alkyl, C1-C5 alkoxy, substituted or unsubstituted aryl, nitro, hydroxyl and a substituted or unsubstituted amino group;

Ring(3) is a 1,3-phonylene, 1,4-phonylene, 1,3-cyclohexylene, or 1,4-cyclohexylene optionally substituted with 1-4 substituents that are independently selected from halogen, C₁-C₆ alkyl, C₁-C₆ alkoxy, substituted or unsubstituted aryl, nitro, hydroxyl, an amino group;

 R_a is hydrogen; a linear or brunched, optionally substituted $C_1\text{-}C_6\text{-allcyl}$; a linear or branched, optionally substituted C₁-C₆-alkoxy; or an optionally substituted aryl; -2-

WASH_1788897.1

 R_t is selected from the group consisting of cyclrogeny a substituted or unsubstituted, $\frac{H}{C_{sV}}/A_{K}/\frac{A_{c}}{C_{sV}}$ saturated, unsulurated or unomatic 3-, 4-, 5-, 6-, 7-or 8-entroboxed ring containing carbon atoms and optionally one or two beteroutenes; substituted or unsubstituted C_{t-} $C_{c,s}$ siky) and cyano,

or a sait, plusmaceutically acceptable sait, plusmaceutically acceptable prodrug, tautomer, isomer, and/or stereochemical isomer, and/or stereochemical isomer.

33 (New) The compound according to claim 32, wherein

wherein -Y may be absent or denotes substitution with 1.4 substituents Y first are independently chosen from helogen, C₁-C₈ alkyl, C₁-C₄ alkoxy, substituted or unsubstituted aryl, nitro, hydroxyl, and an amena group; and

.3-

WASH_1780092.1

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STR

VAR G1=12/17/23/28
NODE ATTRIBUTES:
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CONNECT IS E2 RC AT 33
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E6 C AT 9

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 33

STEREO ATTRIBUTES: NONE

L3 32 SEA FILE=REGISTRY SSS FUL L1
L4 4 SEA FILE=CAPLUS ABB=ON PLU=ON L3

=> fil wpix FILE 'WPIX' ENTERED AT 10:12:20 ON 26 MAR 2008 COPYRIGHT (C) 2008 THE THOMSON CORPORATION

FILE LAST UPDATED: 18 MAR 2008 <20080318/UP>
MOST RECENT THOMSON SCIENTIFIC UPDATE: 200819 <200819/DW>

DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> IPC Reform backfile reclassification has been loaded to the end of November 2007. No update date (UP) has been created for the reclassified documents, but they can be identified by 20060101/UPIC and 20061231/UPIC, 20070601/UPIC, 20071001/UPIC and 20071130/UPIC. <<</p>

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- >>> XML document distribution format now available See HELP XMLDOC <<<
- >>> ECLA Codes and Current US National Classifications have been added see NEWS and HELP CHANGE <<<</pre>
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- >>> Updated PDF files in the following links:
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 http://www.stn-international.de/stndatabases/details/epc_0801.zip
 Supplement of all changed ECLA items:
 http://www.stn-international.de/stndatabases/details/ecla 0802s.zip <<</pre>

=> d que 18

L5 STR



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GRAPH ATTRIBUTES: RSPEC 3 12 17 23 28 NUMBER OF NODES IS 33 STEREO ATTRIBUTES: NONE

L7 9 SEA FILE-WPIX SSS FUL L5

L8 3 SEA FILE=WPIX ABB=ON PLU=ON L7/DCR

=> fil marpat

FILE 'MARPAT' ENTERED AT 10:12:27 ON 26 MAR 2008
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FILE CONTENT: 1961-PRESENT VOL 148 ISS 11 (20080321/ED)

SOME MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1961-1987

MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES (COVERAGE TO THESE DATES IS NOT COMPLETE):

2008032917 07 FEB 2008 DE 102006035202 31 JAN 2008 ΕP 1882693 30 JAN 2008 2008024674 07 FEB 2008 JP WO 2008021152 21 FEB 2008 2439172 19 DEC 2007 GB FR 2904316 01 FEB 2008 RU 2316552 10 FEB 2008 CA 2593150 06 JAN 2008

Expanded G-group definition display now available.

Effective December 15th the iteration and answer limits in MARPAT have increased from 100,000 to 200,000 for both on-line and batch searches. For more information on MARPAT search limits, type HELP SLIMITS at an arrow prompt.

=> d que 114

L12 STR

сь @47

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VAR G3=H/CY/AK/CN
VAR G4=H/AK/45/47
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RSPEC 23 28 12 17 3
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NUMBER OF NODES IS 47

STEREO ATTRIBUTES: NONE

T.14 15 SEA FILE=MARPAT SSS FUL L12

=> fil beilst

FILE 'BEILSTEIN' ENTERED AT 10:12:34 ON 26 MAR 2008 COPYRIGHT (c) 2008 Beilstein-Institut zur Foerderung der Chemischen Wissenschaften licensed to Beilstein GmbH and MDL Information Systems GmbH

FILE LAST UPDATED ON January 3, 2008

FILE COVERS 1771 TO 2007.

*** FILE CONTAINS 10.119,480 SUBSTANCES ***

>>>PLEASE NOTE: Reaction Data and substance data are stored in separate documents and can not be searched together in one query. Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a compounds with available reaction information by combining with PRE/FA, REA/FA or more generally with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For mo detailed reaction searches BRNs can be searched as reaction partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

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>>> Price change as of January 1st, 2008: Connect Time and Structure Search fees re-introduced. See NEWS and HELP COST <<<

L12 STR

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VAR G1=12/17/23/28
VAR G2=H/X/40/38/41/NO2/OH/N
VAR G3=H/CY/AK/CN
VAR G4=H/AK/45/47
NODE ATTRIBUTES:
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CONNECT IS E1 RC AT 40
DEFAULT MLEVEL IS ATOM
GGCAT IS UNS AT 41
GGCAT IS UNS AT 47
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E6 C AT 9
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GRAPH ATTRIBUTES:

10/589.875 March 26, 2008

RSPEC 23 28 12 17 3 NUMBER OF NODES IS 47

STEREO ATTRIBUTES: NONE

L16 0 SEA FILE=BEILSTEIN SSS FUL L12

=> dup rem 14 18 114

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PROCESSING COMPLETED FOR L14

L24 19 DUP REM L4 L8 L14 (3 DUPLICATES REMOVED)
ANSWERS '1-4' FROM FILE CAPLUS

ANSWERS '5' FROM FILE WPIX ANSWERS '6-19' FROM FILE MARPAT

=> d 124 ibib abs hitstr 1-5;d 124 ibib abs qhit 6-19

L24 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2005:984027 CAPLUS Full-text

DOCUMENT NUMBER: 143:266951

TITLE: Preparation of N-(nitrogen-heterocyclyl)carboxamides

as protein kinase C inhibitors

INVENTOR(S): Leysen, Dirk Casimir Maria; Defert, Olivier Raynald;

De Kerpel, Jan Octaaf Antoon; Fourmaintraux, Eric Pierre Paul Rene; Arzel, Philippe; De Wilde, Gert

Jules Hector

PATENT ASSIGNEE(S): Devgen N. V., Belg.

SOURCE: PCT Int. Appl., 102 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT	NO.			KIN	D	DATE			APPL	ICAT	ION :	NO.		DATE				
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WO 2005082367 A1						2005	20050909 WO 2005-IB600							20050218				
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	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,		
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10/589.875 March 26, 2008

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MR, NE, SN, TD, TG
     EP 1715862
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WO 2005-TB600
PRIORITY APPLN. INFO.:
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OTHER SOURCE(S): MARPAT 143:266951

AB The invention provides the use of carboxamides ([Ring(1)]- N(Ra)C(O)[Ring(3)]-(CR1R2)n-NRbRc (I); variables defined below; e.g. 4-(1-aminoethyl)-N-(pyridin-4-yl)benzamide dihydrochloride (II)) or a composition comprising said compound for inhibiting the activity of at least one kinase, other than ROCK kinase, in vitro or in vivo, pharmaceutical and/or veterinary compns. comprising such compds., medical and veterinary uses of such compds. and the compds. themselves. 44 Examples of I were tested for inhibition of epsilon, gamma, theta and zeta isoforms of protein kinase C. Although the methods of preparation are not claimed, .apprx.60 example prepns. are included. For example, II was prepared (92 and 61 %) in 2 steps starting with amide formation between 4-acetylbenzoic acid and 4-aminopyridine to give 4-acetyl-N-(pyridin-4-vl)benzamide, which was condensed with NH2OH:HCl to give the oxime that was reduced to the amine. For I: Ring(1) is a (un)substituted, saturated, unsatd, or aromatic 4-8-membered ring containing C atoms and at least one H-accepting heteroatom and optionally 1 or 2 further heteroatoms; Ra is a H or a linear or branched, (un) substituted C1-C6 alkyl, (un) substituted C1-C6 alkoxy or (un)substituted arvl; Ring(3) is a (un)substituted, saturated, unsatd. or aromatic 4-8-membered ring containing C atoms and optionally 1 or 2 heteroatoms; each R1 or R2 = H, a (un)substituted, saturated, unsatd, or aromatic 3-8-membered ring containing C atoms and optionally one or two heteroatoms, (un) substituted C1-C6 alkyl or cyano; n = 0-2. Rb and Rc are such that the amino group -NRbRc is essentially in a protonated form at a pH = 5.0-9.0; the distance between the at least one H-accepting heteroatom in Ring(1) and the N(Ra)(Rb) N atom, as determined using a scatter plot, is 11.0-11.8 A; addnl. details are given in the claims.

IT 863762-39-5P, N-(Pyridin-4-y1)-a-(pyrrolidin-2-y1)-benzamide dihydrochloride 863769-41-3P, 4-(Piperidin-2-y1)-N-(pyridin-4-y1)-benzamide dihydrochloride 863769-46-4P, 4-(4,5-Dihydro-1H-imidazol-2-y1)-N-(pyridin-4-y1)-benzamide 863769-47-3P, N-(Pyridin-4-y1)-4-(1,4), 6-tetrahydro-1H-pyrimidin-2-y1)-benzamide 863769-70-4P, 4-(Piperidin-2-y1)-N-(1H-pyrrolo[2,3-b]pyridin-4-y1)-benzamide 6363760-6-3P, N-(Pyridin-4-y1)-henzamide 636370-0-3P, N-(Pyridin-2-y1)-N-(pyridin-2-y1)-benzamide 863770-0-3P, 4-(Piperidin-2-y1)-N-(pyridin-4-y1)-benzamide 863770-15-4P, 4-(Piperidin-2-y1)-N-(1H-pyrrolo[2,3-b]pyridin-4-y1)-benzamide RG-170-15-4P, N-(Piperidin-2-y1)-N-(1H-pyrrolo[2,3-b]pyridin-4-y1)-benzamide RG-170-15-4P, N-(Piperidin-2-y1)-N-(1H-pyrrolo[2,3-b]pyridin-4-y1)-benzamide RG-170-15-4P, PREP (Preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USE

(drug candidate; preparation of N-(nitrogen-heterocyclyl)carboxamides as protein kinase C inhibitors)

RN 863769-39-5 CAPLUS

(Uses)

CN Benzamide, N-4-pyridinyl-4-(2-pyrrolidinyl)-, dihydrochloride (9CI) (CA INDEX NAME)

■2 HC1

RN 863769-41-9 CAPLUS

CN Benzamide, 4-(2-piperidinyl)-N-4-pyridinyl-, dihydrochloride (9CI) (CA INDEX NAME)

■2 HC1

RN 863769-46-4 CAPLUS

CN Benzamide, 4-(4,5-dihydro-1H-imidazol-2-yl)-N-4-pyridinyl- (CA INDEX NAME)

RN 863769-47-5 CAPLUS

CN Benzamide, N-4-pyridinyl-4-(1,4,5,6-tetrahydro-2-pyrimidinyl)- (CA INDEX NAME)

RN 863769-70-4 CAPLUS

CN Benzamide, 4-(2-piperidiny1)-N-1H-pyrrolo[2,3-b]pyridin-4-y1-, dihydrobromide (9CI) (CA INDEX NAME)

●2 HBr

- RN 863770-06-3 CAPLUS
- CN Benzamide, N-4-pyridinyl-4-(2-pyrrolidinyl)- (CA INDEX NAME)

- RN 863770-07-4 CAPLUS
- CN Benzamide, 4-(2-piperidinyl)-N-4-pyridinyl- (CA INDEX NAME)

- RN 863770-15-4 CAPLUS
- CN Benzamide, 4-(2-piperidiny1)-N-1H-pyrrolo[2,3-b]pyridin-4-yl- (CA INDEX NAME)

IT 863769-44-3P, 4-(N-BOC-piperidin-2-yl)-N-(pyridin-4-yl)benzamide 863769-74-8P, 2-[4-[[1-[[2-(Trimethylsilanvl)ethoxy]methyl]-1Hpyrrolo[2,3-b]pyridin-4-yl]carbamoyl]phenyl]piperidine-1-carboxylic acid benzyl ester 863769-75-9P, 2-[4-[(1H-Pyrrolo[2,3-b]pyridin-4vl)carbamovl]phenvl]piperidine-1-carboxvlic acid benzvl ester RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of N-(nitrogen-heterocyclyl)carboxamides as protein kinase C inhibitors)

RN 863769-44-2 CAPLUS

CN 1-Piperidinecarboxylic acid, 2-[4-[(4-pyridinylamino)carbonyl]phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

863769-74-8 CAPLUS RN

CN 1-Piperidinecarboxylic acid, 2-[4-[[[1-[[2-(trimethylsily1)ethoxy]methyl]-1H-pyrrolo[2,3-b]pyridin-4-vl]amino|carbonyl]phenyl]-, phenylmethyl ester (CA INDEX NAME)

RN 863769-75-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 2-[4-[(1H-pyrrolo[2,3-b]pyridin-4vlamino)carbonyl]phenyl]-, phenylmethyl ester (CA INDEX NAME)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2005:314862 CAPLUS Full-text

142:392289 DOCUMENT NUMBER:

TITLE: Preparation of (hetero)aryl amides as ion channel

ligands

INVENTOR(S): Kelly, Michael; Janagani, Satyanarayana; Wu, Guoxian; Kincaid, John

PATENT ASSIGNEE(S): Renovis, Inc., USA SOURCE:

Brit. UK Pat. Appl., 131 pp. CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE GB 2406856 20050413 GB 2004-22296 20041007

								10/.	309,0	5/3							viaicii
GB	2406	856			В		2005	1019									
CA	2541	299			A1		2005	0414		CA 2	004-	2541	299		2	0041	007
WO	2005	0324	93		A2		2005	0414		WO 2	004-	US33	403		2	0041	007
WO	2005	0324	93		A3		2005	0909									
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
		NO.	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU.	SC.	SD,	SE,	SG,	SK,	SL,	SY,
		TJ,	TM.	TN.	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
		AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
										IT,							
										CM,							
		SN,	TD,	TG													
WO	2005	0348	70		A2		2005	0421		WO 2	004-	US33	099		2	0041	007
WO	2005	0348	70		A3		2005	0623									
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
										DZ,							
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP.	KR,	KZ,	LC,
										MG,							
										RU,							
		TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
		AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,
		SI,	SK,	TR.	BF,	BJ,	CF.	CG,	CI,	CM,	GA,	GN,	GO,	GW,	ML,	MR,	NE.
		SN,	TD,	TG													
US	2005	1922	93		A1		2005	0901		US 2	004-	9621	95		2	0041	007
US	7338	950			B2		2008	0304									
US	2005	1973	64		A1		2005	0908		US 2	004-	9618	17		2	0041	007
GB	2413	129			A		2005	1019		GB 2	005-	9754			2	0041	007
EP	1685	109			A2		2006	0802		EP 2	004-	8099	16		2	0041	007
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		IE,	SI,	FI,	RO,	CY,	TR,	BG,	CZ,	EE,	HU,	PL,	SK				
BR	2004	0151	67		A		2006	1128		BR 2	004-	1516	7		2	0041	007
JP	2007	5254	82		T		2007	0906		JP 2	006-	5344	32		2	0041	007
MX	2006	PA03	949		A		2006	0627		MX 2	006-	PA39	49		2	0060	407
PRIORITY	Y APP	LN.	INFO	. :						US 2	003-	5088	65P	1	P 2	0031	007
										US 2	004-	5759	37P	1	P 2	0040	601
										GB 2	004-	2229	6		A3 2	0041	007
										wo 2	004-	us33	403			0041	
OTHER SO	OURCE	(S):			CASI	REAC	T 14	2:39	2289	; MA	RPAT	142	:392	289			
GI																	

AB Title compds. I $[A=N, CR4, a \ carbon \ atom \ bound \ to \ L, \ or \ is \ not \ an \ atom; \ one \ of \ W, \ Z, \ B, \ Y, \ X = \ carbon \ atom \ bound \ to \ I, \ if \ A \ is \ not \ an \ atom, \ another \ of \ W, \ Z, \ B, \ Y, \ X = \ carbon \ atom \ bound \ to \ G, \ and \ each \ of \ the \ remaining \ W, \ Z, \ B, \ Y \ and \ X \ is \ independently \ N \ or \ CR4; \ L = \ bond, \ (CH2)n; \ n = 1-3; \ G = CO, CS, \ SO2; \ R1 =$

26.85 µM) and CYP1A2 (IC50 = 97.45 µM). I are useful in the treatment of

alkyl, heteroalkyl, aryl, etc.; R2 = H, alkyl; R3 = alkyl, heteroalkyl, aryl, etc.; R4 = H, alkyl, etc.] are prepared For instance, 4-(3-chloropyridin-2-yl)-N-(4-(trifluoromethyl)phenyl)benzamide (II) is prepared from 4-(3-chloropyridin-2-yl)benzoic acid (preparation given) and 4-trifluoromethylaniline (CH2Cl2, COZCl2, DMF). II did not significantly inhibit CYP2C9, CYP2D6 and CYP3A4 but exhibits inhibition for CYP2C19 (IC50 =

pain, inflammation and traumatic injury.

1T 849753-68-0P 849753-89-5P 849754-17-2P
849754-60-5P 849755-02-8P 949755-16-4P
849755-80-2P 849755-93-7P 949757-30-8P
849757-53-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of (hetero)aryl amides as ion channel ligands)

RN 849753-68-0 CAPLUS

CN Benzamide, 4-(3-chloro-2-pyridinyl)-N-4-pyridinyl- (CA INDEX NAME)

RN 849753-89-5 CAPLUS

CN Benzamide, N-(2-chloro-4-pyridiny1)-4-(3-chloro-2-pyridiny1)- (CA INDEX NAME)

RN 849754-17-2 CAPLUS

CN Benzamide, 4-(3-chloro-2-pyridinyl)-2-fluoro-N-4-pyridinyl- (CA INDEX NAME)

RN 849754-60-5 CAPLUS

N Benzamide, N-(2-chloro-4-pyridiny1)-4-(3-chloro-2-pyridiny1)-2-fluoro-

(CA INDEX NAME)

RN 849755-02-8 CAPLUS

CN Benzamide, 4-(3-chloro-2-pyridinyl)-3-fluoro-N-4-pyridinyl- (CA INDEX NAME)

RN 849755-16-4 CAPLUS

CN Benzamide, N-(2-chloro-4-pyridinyl)-4-(3-chloro-2-pyridinyl)-3-fluoro-(CA INDEX NAME)

$$\bigcap_{i=1}^{n}\bigcap_{j=1}^{n}\bigcap_{j=1}^{n}\bigcap_{j=1}^{$$

RN 849755-80-2 CAPLUS

CN Benzamide, 4-(3-chloro-2-pyridinyl)-3-methoxy-N-4-pyridinyl- (CA INDEX NAME)

RN 849755-93-7 CAPLUS

CN Benzamide, N-(2-chloro-4-pyridiny1)-4-(3-chloro-2-pyridiny1)-3-methoxy-(CA INDEX NAME)

RN 849757-30-8 CAPLUS

CN Benzamide, N-(2-chloro-4-pyridinyl)-4-[3-(trifluoromethyl)-2-pyridinyl]-(CA INDEX NAME)

RN 849757-53-5 CAPLUS

CN Benzamide, N-(2-chloro-4-pyridinyl)-3-fluoro-4-[3-(trifluoromethyl)-2pyridinyl]- (CA INDEX NAME)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:391508 CAPLUS Full-text

DOCUMENT NUMBER: 145:75997

TITLE: Synthesis, anti-inflammatory, analgesic and kinase

(CDK-1, CDK-5 and GSK-3) inhibition activity evaluation of benzinidazole/benzoxazole derivatives and some Schiff's bases

AUTHOR(S): Sondhi, Sham M.; Singh, Nirupma; Kumar, Ashok; Lozach, Olivier; Meijer, Laurent

CORPORATE SOURCE: Department of Chemistry, Indian Institute of

Technology Roorkee (IIT R), Roorkee, 247 667, UA,

India

SOURCE: Bloorganic & Medicinal Chemistry (2006), 14(11), 3758-3765

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

OTHER SOURCE(S):

CASREACT 145:75997

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- AB A series of N-(acridin-9-y1)-4-(benzo[d]imidazol/oxazol-2-y1) benzamides has been synthesized by the condensation of 9-aminoacridine derivs, with benzimidazole or benzoxazole derivs. Condensation of 2-hydroxy naphthaldehyde with functionalized diamines leads to the formation of Schiff's bases and not imidazole derivs. All these compds, were characterized by correct FT-TR, HH NMR, MS and elemental analyses. These compds. were screened for antinflammatory, analgesic and kinase (CDK-1, CDK-5 and GSK-3) inhibition activities. Compds. (I) and a mixture (II, III) showed good anti-inflammatory (35.8% at 50 mg/kg po) activity and good analgesic activity (60% at 50 mg/kg po), resp. Compound (IV) showed significant in vitro activity against CDK-5 (IC50 = 4.6 μM) and CDK-1(IC50 = 7.4 μM) and compound (V) showed moderate CDK-5 inhibitory activity (IC50 = 7.5 μM). The other compds. showed moderate anti-inflammatory and analgesic activities.
- IT 892866-06-7P 892866-07-8P 892866-08-9P

892866-09-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synthesis, anti-inflammatory, analgesic and kinase (CDK-1, CDK-5 and GSK-3) inhibition activity evaluation of benzimidazole/benzoxazole derives. and some Schiff's bases)

RN 892866-06-7 CAPLUS

CN Benzamide, N-9-acridiny1-4-(5-chloro-1H-benzimidazo1-2-y1)- (CA INDEX NAME)

- RN 892866-07-8 CAPLUS
- CN Benzamide, N-9-acridinyl-4-(5-nitro-1H-benzimidazol-2-yl)- (CA INDEX NAME)

RN 892866-08-9 CAPLUS

CN Benzamide, N-(5-methoxy-9-acridinyl)-4-(5-nitro-1H-benzimidazol-2-yl)-(CA INDEX NAME)

RN 892866-09-0 CAPLUS

CN Benzamide, N-9-acridinyl-4-(5,6-dimethyl-1H-benzimidazol-2-yl)- (CA INDEX NAME)

10/589,875 March 26, 2008

REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2002:716082 CAPLUS Full-text

DOCUMENT NUMBER: 137:232653

TITLE: Preparation of 2-(carboxamidophenyl)benzimidazole-5carboxamides and analogs as IgE and cell proliferation
inhibitors

INVENTOR(S): Sircar, Jagadish C.; Richards, Mark L.; Major, Michael W.

PATENT ASSIGNEE(S): Avanir Pharmaceuticals, USA

SOURCE: PATENT ASSIGNEE(S): Avanir Pharmaceuticals, U.
PCT Int. Appl., 213 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

PAT	TENT	NO.			KIN)	DATE			APF	LICA	TION	NO.		D	ATE	
	2002	0720	90		A1		2002	0919		WO	2002	-US68	01		2	0020	228
	W:						AU,										
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC	, EE	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	, IN,	IS,	JP,	KE	, KG	KP,	KR,	KΖ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN	I, MW	MX,	MZ,	NO,	ΝZ,	OM,	PH,
		PL,	PT,	RO,	RU,	SD	SE,	SG,	SI,	SK	, SL	. TJ,	TM,	TN,	TR,	TT,	TZ,
		UA,	UG,	UZ,	VN,	YU,	ZA,	ZM,	ZW								
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ	, TZ	UG,	ZM,	ZW,	AT,	BE,	CH,
		CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE	, IT	LU,	MC,	NL,	PT,	SE,	TR,
		BF,	ВJ,	CF,	CG,	CI	CM,	GA,	GN,	GÇ	, GW	ML,	MR,	NE,	SN,	TD,	TG
US	2002	1328	08		A1		2002	0919		US	2002	-9004	4		2	0020	227
US	6759	425			B2		2004	0706									
CA	2441	177			A1		2002 2002 2003	0919		CA	2002	-2441	177		2	0020	228
AU	2002	2472	73		A1		2002	0924		AU	2002	-2472	73		2	0020	228
EP	1368	028			A1		2003	1210		EP	2002	-7150	52		2	0020	228
EP	1368	028			B1		2007	0815									
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GF	, IT	LI,	LU,	NL,	SE,	MC,	PT,
		IE,	SI,	LT,	LV,	FI	RO,	MK,	CY,	AL	, TR						
HU	2003	0034	60		A2		2004	0301		HU	2003	-3460			2	0020	228
HU	2003	0034	60		A3		2004 2004 2004 2004	0728									
CN	1496	257			A		2004	0512		CN	2002	-8064	86		2	0020	228
JP	2004	5283	04		T		2004	0916		JΡ	2002	-5710	49		2	0020	228
BR	2002	0080	10		A		2004	1221		BR	2002	-8010					
NZ	5288	35			A		2005 2007	0527		NZ	2002	-5288	35		2	0020 0020 0020	228
AT	3698	53			T		2007	0915		ΑT	2002	-7150	52		2	0020	228
ES	2291	455			Т3		2008	0301			2002						
AU	2003	2013	63		A1		2003	0612		AU	2003	-2013	63		2	0030	319
IN	2003	KN01	125		A		2005	1014		IN	2003	-KN11	25		2	0030	905
MX	2003	JL00	027		A		2004	0430		MX	2003 2003 2004	-JL27			2	0030	910
ZA	2003	0079	16		A		2004	0903		ZA	2003	-7916			2	0031	010
US	2004	2148	21		A1		2004 2004	1028		US	2004	-7950	06		2	0040	305
US	7282	518			B2		2007	1016									
ORITY	Y APP	LN.	INFO	. :						US	2001	-2752	60P		P 2	0010	312
										US	2002	-9004	4		A 2	0020	227
										US	1998	-8649	4P		P 1	9980	522
										AU	1999	-4312	0		A3 1	9990	521
										WO	1998 1999 2002	-US68	01		W 2	0020	228
ER SC		(S):			MARI	PAT	137:	2326	53								

21

AB RZZIR5 [I; R = CONRIR2 and R5 = NR3R4 or CONR3R4 or R = NR1COR2 and R5 = CONR3R4; R1,R2 = H, alkyl, (un)substituted (heterolaryl, etc.; R3,R4 = H, alkyl, (hetero)aryl, alkanoyl, aroyl, etc.; Z = (un)substituted benzimidazolen, 2-diyl; Z1 = (un)substituted phenylene; n = 4-7] were prepared Thus, 3,4-(HZN)2C6H3CO2H was cyclocondensed with 4-(C2N)C6H4CHO and the product amidated by cyclohexylamine to give, after reduction and amidation, title compound II. Data for biol. activity of 1 I were given.

IT 459807-86-4P 459807-91-1P 459807-95-5P 459807-99-9P 459808-03-8P 459808-07-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 2-(carboxamidophenyl)benzimidazole-5-carboxamides and analogs as IgE and cell proliferation inhibitors)

- RN 459807-86-4 CAPLUS
- CN 1H-Benzimidazole-5-carboxamide, N-cyclohexyl-2-[4-[(4-pyridinylamino)carbonyl]phenyl]- (9CI) (CA INDEX NAME)

- RN 459807-91-1 CAPLUS
- CN 1H-Benzimidazole-5-carboxamide, 2-[4-[(4-pyridinylamino)carbonyl]phenyl]-N-tricyclo[3.3.1.13,7]dec-2-yl- (9CI) (CA INDEX NAME)

- RN 459807-95-5 CAPLUS
- CN 1H-Benzimidazole-5-carboxamide, N-(2-methylcyclohexyl)-2-[4-[(4-pyridinylamino)carbonyl]phenyl]- (9CI) (CA INDEX NAME)

RN 459807-99-9 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, N-cycloheptyl-2-[4-[(4-pyridinylamino)carbonyl]phenyl]- (9CI) (CA INDEX NAME)

RN 459808-03-8 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, N-bicyclo[2.2.1]hept-2-yl-2-[4-[(4-pyridinylamino)carbonyl]phenyl]- (9CI) (CA INDEX NAME)

RN 459808-07-2 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, N-(4-fluorophenyl)-2-[4-[(4-pyridinylamino)carbonyl]phenyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 5 OF 19 WPIX COPYRIGHT 2008 THE THOMSON CORP on STN ACCESSION NUMBER: 2005-716592 [74] WPIX

CROSS REFERENCE: 2005-308639

DOC. NO. CPI: C2005-218279 [74]

TITLE: New aromatic amide compounds are vanilloid receptor agonists useful for the treatment of e.g. headache, Parkinson's disease, Alzheimer's disease, multiple

sclerosis and stroke

DERWENT CLASS: B02; B03

JANAGANI S; KELLY M; KINCAID J; WU G INVENTOR:

PATENT ASSIGNEE: (RENO-N) RENOVIS INC COUNTRY COUNT:

PATENT INFO ABBR.:

PATENT NO KIND DATE WEEK LA PG MAIN IPC GB 2413129 A 20051019 (200574)* EN 132[6]

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION DATE
GB 2413129	A Div Ex	GB 2004-22296 20041007
GB 2413129	A	GB 2005-9754 20050516

PRIORITY APPLN. INFO: US 2004-575937P US 2003-508865P

AN 2005-716592 [74] WPIX CR 2005-308639

AB GB 2413129 A UPAB: 20060125

NOVELTY - Aromatic amide compounds (I) (capable of modifying ion channels in vivo) and their salts, solvates, prodrugs or stereoisomers are new.

20040601

20031007

DETAILED DESCRIPTION - Aromatic amide compounds of formula (I) (capable of modifying ion channels in vivo) and their salts, solvates, prodrugs or stereoisomers are new.

A = N, CR4, C bound to L or is not atom (one of W, Z, B,Y, X is C atom bound to L if A is not an atom, another of W, Z, B, Y, X is a C bound to G and each of the remaining W, Z, B, Y and X is N or CR4);

L = bond or -(CH2)n;n = 1-3:

G = CO, CS or SO2;

R1, R3 = aliphatic (optionally substituted), (hetero)alkyl, (hetero)arvl or (hetero)aralkvl;

R2 = H or optionally substituted alkyl; and

R4 = H, alkyl (optionally substituted), acyl, acylamino, alkylamino, alkylthio, alkoxy, alkoxycarbonyl, alkylarylamino, arylalkyloxy, amino, aryl, arylalkyl, sulfoxide, sulfone, sulfanyl, aminosulfonyl, arylsulfonyl, sulfuric acid, sulfuric acid ester, dihydroxyphosporyl, aminohydroxyphosphoryl, azido, carboxy, carbamoyl, carboxyl, CN, cycloheteroalkyl, dialkylamino, halo, heteroaryloxy, heteroaryl, heteroalkyl, OH, NO2 or thio.

An INDEPENDENT CLAIM is also included for the preparation of (I). ACTIVITY - Analgesic; Immunosuppressive; Antiinflammatory;

Neuroprotective; Antimigraine; Antiparkinsonian; Nootropic; Cerebroprotective; Vasotropic; Antidepressant; Antimanic; Neuroleptic; Tranquilizer; Eating-Disorders-Gen.; Hypnotic; Anticonvulsant; Gastrointestinal-Gen.; Uropathic; Respiratory-Gen.: Antiallergic: Antiasthmatic: Antiarthritic: Antirheumatic: Osteopathic; Cardiant; Ophthalmological; Antiarteriosclerotic; Antipruritic; Antipsoriatic; Endocrine-Gen.; Anorectic; Cytostatic; Vulnerary; Nephrotropic.

MECHANISM OF ACTION - Vanilloid receptor (VR-1) agonist. (I) were tested for VR-1 agonist activity using imaging assay. The result showed that the percentage inhibition value of (I) was 75%.

USE - (I) are useful for the treatment, prevention, amelioration or management of pain condition, autoimmune disease, inflammatory disease or condition, neurological or neurodegenerative disease, pain including acute, inflammatory and neuropathic pain, chronic pain, dental pain, headache including migraine, cluster headache and tension headache, Parkinson's disease, Alzheimer's disease, multiple sclerosis, diseases and disorders mediated by or result in neuroinflammation, traumatic brain injury, stroke, or encephalitis, centrally-mediated neuropsychiatric diseases and disorders including depression, mania, bipolar disease, anxiety, schizophrenia, eating disorders, sleep disorders and cognition disorders, epilepsy and seizure disorders, prostate, bladder and bowel dysfunction, urinary incontinence, urinary hesitancy, rectal hypersensitivity, fecal incontinence, benign prostatic hypertrophy and inflammatory bowel disease, respiratory and airway disease and disorders including allergic rhinitis, asthma and reactive airway disease and chronic obstructive pulmonary disease, diseases and disorders mediated by or result in inflammation including arthritis, rheumatoid arthritis and osteoarthritis, myocardial infarction, autoimmune diseases and disorders, uveitis and atherosclerosis, itch/pruritus, psoriasis, alopecia (hair loss), obesity, lipid disorders, cancer, high blood pressure, spinal cord injury or renal disorders. (I) are useful for the treatment of symptom such as symptoms of exposure to capsaicin, burns or irritation due to exposure to heat, light or burns (all claimed).

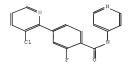
ADVANTAGE - (I) exhibited improved aqueous solubility and metabolic stability.

- AN.S DCR-1063679
- CN.S 4-(3-Chloro-pyridin-2-yl)-N-pyridin-4-yl-benzamide
- SDCN RAHLOC

- AN.S DCR-1063716
- ${\tt CN.S~N-(2-Chloro-pyridin-4-yl)-4-(3-chloro-pyridin-2-yl)-benzamide}$
- SDCN RAHLPD

AN.S DCR-1063751

CN.S 4-(3-Chloro-pyridin-2-y1)-2-fluoro-N-pyridin-4-y1-benzamide SDCN RAHLOC



AN.S DCR-1170498

CN.S 4-(3-Chloro-pyridin-2-yl)-3-methoxy-N-pyridin-4-yl-benzamide SDCN RAJTZC

L24 ANSWER 6 OF 19 MARPAT COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 147:406803 MARPAT Full-text

TITLE: Preparation of benzenediamine derivatives as

inhibitors of the interactions between MDM2 and p53
INVENTOR(S): Lacrampe, Jean Fernand Armand; Meyer, Christophe;

Schoentjes, Bruno; Lardeau, Delphine Yvonne Raymonde;

PATENT ASSIGNEE(S): Poncelet, Alain Philippe; Van Hijfte, Luc PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.

SOURCE: PCT Int. Appl., 60pp.

OURCE: PCT Int. Appl., 60pp CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007107543	A1	20070927	WO 2007-EP52579	20070319

```
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,
            CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB,
             GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM,
             KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK,
            MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,
             RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT,
             TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
             IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW,
            GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM
PRIORITY APPLN. INFO.:
                                           EP 2006-111531
                                                          20060322
                                           US 2006-784780P 20060322
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GI

$$A = (CH_2)_{n} = (NH)_{p} = (CH_2)_{m} = (CH_2)_{g} = NH = (CH_2)_{g} = NH$$

$$NH$$

$$NH$$

$$NH$$

AB The title compds. I [wherein m = 0-2; n = 0-4; p, s, t independently = 0 or 1; R1, R2 independently = H, halo, alkyl, etc.; A = (un)substituted Ph, pyridinyl, pyrrolyl, thiophenyl or furanyl; Z = certain (un)substituted nitrogen heteroaryl] and N-oxides, salts, or stereoisomers thereof are prepared as inhibitors of the interactions between MDM2 and p53. For example, compound II was prepared in a multi-step synthesis. I showed inhibitory effect in both p53 ELISA assay and cell proliferation assay. The invented compds. are useful for the treatment of disorders mediated by p53-MDM2 interactions.

MSTR 1

61-3625-612-613

G1 = 61

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G12 = 366-334 367-5

3840484

G13 = 277



G25 = phenylene (opt. substd. by (1-2) G7)

Patent location: claim 1

Note: or N-oxides, addition salts

Note: also incorporates claim 10, formula (VIII)

Stereochemistry: or stereochemically isomeric forms

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 7 OF 19 MARPAT COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 147:95431 MARPAT Full-text

TITLE: Benzamides as TRPV1 modulators and their preparation

and a pharmaceutical composition comprising an amide

derivative

INVENTOR(S): Kai, Hiroyuki

PATENT ASSIGNEE(S): Shionogi & Co., Ltd., Japan

SOURCE: PCT Int. Appl., 90pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT I	40.		KI	ND	DATE			Al	PPLI	CATI	и ис	o.	DATE			
WO 2007069773 A1			1	2007	0621	21 WO 2006-JP325313 20061213										
W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KN,
	KP,	KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,
	MN,	MW,	MX,	MY,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,
	RS,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	ΤJ,	TM,	TN,	TR,	TT,
	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW						
RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FΙ,	FR,	GB,	GR,	HU,	IE,
	IS,	IT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	BJ,
	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,

GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

JP 2005-361643 20051215

GI

AB The invention provides a modulator of the TRPV1-receptor function, comprising a compound of the formula I. Compds. of formula I wherein A is (un) substituted (mono/bi) cyclic carbocycle, and (un) substituted (mono/bi)heterocycle; ring B is (un)substituted benzene, (un)substituted 6membered heteroarom, ring containing N atom; R1 is H, (un)substituted lower alkyl and (un) substituted acyl; dashed line is a single or double bond; when dashed bond is a double bond, then n is 0; X is =CRx, and =N; R3 and R4 are taken together to form (un)substituted 5- to 6-membered nonarom. heterocycle; Rx is H, halo, lower (halo)alkyl, lower (halo)alkoxy and acyl; or X is =N; R3 is lower alkyl; R4 is lower alkoxy and aryloxy; when dashed bond is single bond, n is 1; R2 is H. (un) substituted lower alkvl; X is O. S. and NH and derivs.; R3 and R4 taken together for forum and (un)substituted nonarom. 5-to 6-membered heterocycle; and their pharmaceutically acceptable salts thereof, are claimed. Example compound II was prepared by amidation of 4-acetylbenzoic acid with 4-tert-butylaniline; the resulting N-(4-tert-butylphenyl) 4acetylbenzamide underwent acetalization with 1,3-propanediol to give compound II. All the invention compds. were evaluated for their TRPV1 modulatory activity. From the assay, it was determined that compound II exhibited an IC50 value of 297 nM.

MSTR 1

G1-G2-G(O)-G3-G4

- G1 = pyridyl (opt. substd.)
- G2 = 1
 - 3 = phenylene (opt. substd. by 1 or more G32)

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G4 = 22

2917-2913

G17 = 514-4 514-25

G33 = NH (opt. substd.) G34 = CH2 (opt. substd.)

Patent location: claim 1

Note: or pharmaceutically acceptable salts or solvates

REFERENCE COUNT: THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS 20 RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 8 OF 19 MARPAT COPYRIGHT 2008 ACS on STN 146:273992 MARPAT Full-text

ACCESSION NUMBER:

TITLE: Cyclohexenylamine derivatives and as inhibitors of dipeptidyl peptidase-iv (DPP-IV) and their

preparation, pharmaceutical compositions and use in

the treatment of various diseases

Pei, Zhonghua; Geldern, Thomas Von; Madar, David J.; INVENTOR(S):

Li, Xiaofeng; Basha, Fatima; Yong, Hong; Longenecker, Kenton L.; Backes, Bradley J.; Judd, Andrew S.;

Mulhern, Matthew M.; Stewart, Kent D.

PATENT ASSIGNEE(S): USA

SOURCE:

U.S. Pat. Appl. Publ., 51pp.

CODEN: USXXCO DOCUMENT TYPE: Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT N	PATENT NO. KIN			DATE APPLICATION NO. DATE													
US 20070	149596	20070301	20070301 US 2006-510451 20060825														
WO 20070	2007027651 A2				W	20	06-U	\$336	20	20060825							
WO 20070	WO 2007027651 A3																
W:	AE, AG,	AL, AM	AT, AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,				
	CN, CO,	CR, CU	CZ, DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,				
	GE, GH,	GM, HN	HR, HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KN,	KP,				
	KR, KZ,	LA, LC	LK, LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,				
	MW, MX,	MY, MZ	NA, NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RS,				
	RU, SC,	SD, SE	, SG, SK,	SL,	SM,	SV,	SY,	ΤJ,	TM,	TN,	TR,	TT,	TZ,				
	UA, UG,	US, UZ	VC, VN,	ZA,	ZM,	ZW											
RW:	AT, BE,	BG, CH	CY, CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,				
	IS, IT,	LT, LU	LV, MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	BJ,				
	CF, CG,	CI, CM	GA, GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,				
	GM, KE,	LS, MW	MZ, NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,				
	KG, KZ,	MD, RU	TJ, TM,	AP,	EA,	EP,	OA										
PRIORITY APPI	N. INFO	.:			U	S 20	05-7	1264	6P	2005	0830						

AB The invention relates to compds. of formula I, which inhibit dipeptidyl peptidase IV (DPP-IV) and are useful for the prevention or treatment of diabetes, especially type II, as well as hyperglycemia, metabolic syndrome, hyperinsulinemia, obesity, atherosclerosis, various immunomodulatory diseases, and other diseases. Compds. of formula I wherein Rl is H, (halo)alkyl, (heterolaryl, heterocyclyl, cycloalkyl, cycloalkynl, etc.; R2 is H, (halo)alkyl, cycloalkyl, tycloalkyl, etc.; R3 is H and (halo)alkyl; detted line is optional double bond, Arl is (un)substituted (heterolaryl), and their pharmaceutically acceptable salts, metabolites, prodrugs, salt of prodrugs, and combinations thereof, are claimed. Example compound II was prepared by cyclization of 1,3-butadiene with 2-chloro-β-nitrostyrene; the resulting trans-1-chloro-2-(6-nitrocyclohex-3-en-1-yl)benzene underwent reduction to give compound II. All the invention compds. were evaluated for their DPP-IV inhibitory activity.

MSTP 1

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G14 = pyridyl (opt. substd.)

Patent location: claim 1

substitution is restricted Note:

Note: additional oxo and ring formation also claimed or pharmaceutically acceptable salts, metabolites, Note:

prodrugs, salts of prodrugs, or combinations

L24 ANSWER 9 OF 19 MARPAT COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 146:45520 MARPAT Full-text

TITLE: Oxadiazole derivatives as positive allosteric

modulators of metabotropic glutamate receptors and their preparation, pharmaceutical compositions and use

in the treatment of diseases

INVENTOR(S): Farina, Marco; Gagliardi, Stefania; Le Poul, Emmanuel;

Palombi, Giovanni; Rocher, Jean-Philippe Addex Pharmaceuticals SA, Switz.

PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 110pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent. LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE _____ WO 2006129199 A1 20061207 WO 2006-IB1882 20060517
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN. YU. ZA. ZM. ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM AU 2006253863 Al 20061207 AU 2006-253863 20060517 CA 2605513 Al 20061207 CA 2006-2609513 20060517 EP 1896464 Al 20080312 EP 2006-779844 20060517

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

KR 2008017040 A 20080225 KR 2007-729430 20071217 PRIORITY APPLN. INFO.: GB 2005-10139 20050518 WO 2006-IB1882 20060517

GT

P-X-A-Y-W-B-O I

AB The invention relates to compds. which are heterocyclic derivs. of formula I. Compds. of formula I wherein W is (un)substituted C5-7 (hetero)cycloalkyl, and (un) substituted C5-7 heterocycloalkenyl; P and Y are independently (un) substituted (hetero) cycloalkyl and (un) substituted (hetero) aryl; A is N=N, Et, ethenyl, ethynyl, NHCO and derivs, NHSO2 and derivs., etc.; B is a single bond, CO-CO-2 alkyl, CO-C2-6 alkenyl, CO2, etc.; X and Y are independently a bond, NHCO2 and derivs., (un)substituted C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, c3-7 cycloalkyl, etc.; and their pharmaceutically acceptable salts, hydrates, solvates and N-oxides are claimed. Invention compds. are useful for treating central or peripheral nervous system disorders and other disorders which are affected by the neuromodulatory effect of mGluR5 pos. allosteric modulators such as cognitive decline and also to treat both pos. and neg. symptoms in schizophrenia. Example compound II was prepared by condensation of 4-fluorophenylacetonitrile with hydroxylamine followed by cyclization with (S)-1-Boc-piperidine-3-carboxvlic acid; the resulting (S)-3-[3-(4fluorobenzyl)-[1,2,4]oxadiazol-5-yl]piperidine-1-carboxylic acid tert-Bu ester underwent hydrolysis to give the corresponding piperidine hydrochloride, which underwent amidation with 4-fluorobenzoyl chloride to give compound II. All the invention compds, were evaluated for their pos. allosteric modulator activity of mGluR5. From the assay, it was determined that compound II exhibited an EC50 value of < 1 uM.

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g^{17}-g^{4}-g^{1}

G1 = pyridy1 (opt. substd.)

G4 = 9-2 10-4
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MSTP 1A

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G15 = CH2 G17 = 1

G20-G18

G18 = 76

7619-761

G19 = 166-1 169-77

= phenylene (opt. substd.)

G24 = bond

Patent location: Note:

or pharmaceutically acceptable salts, hydrates,

solvates or N-oxides

Note: substitution is restricted

additional derivatization also claimed Note:

claim 1

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 10 OF 19 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 144:488668 MARPAT Full-text

TITLE: Pyridine- and pyrimidinecarboxylic acid derivatives and related compounds as IL-12 modulators and their preparation, pharmaceutical compositions, and use for

treatment of various autoimmune diseases

INVENTOR(S): Sun, Lijun; Kostik, Elena; Przewloka, Teresa; Ng, Howard P.; Chimmanamada, Dinesh; Demko, Zachary Synta Pharmaceuticals Corp., USA

PATENT ASSIGNEE(S): SOURCE:

PCT Int. Appl., 246 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent.

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006053227	A2	20060518	WO 2005-US40952	20051110
WO 2006053227	A3	20060706		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, 10/589.875 March 26, 2008

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GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
             KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
            MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
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             VN. YU. ZA. ZM. ZW
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             CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH,
             GM. KE. LS. MW. MZ. NA. SD. SL. SZ. TZ. UG. ZM. ZW. AM. AZ. BY.
             KG, KZ, MD, RU, TJ, TM
     AU 2005304393
                      A1
                           20060518
                                          AU 2005-304393
                                                            20051110
                                          CA 2005-2586870 20051110
     CA 2586870
                      A1
                           20060518
     US 2006223996
                      A1
                            20061005
                                          US 2005-272509
                                                            20051110
                                          EP 2005-820870
     EP 1819341
                      A2
                           20070822
                                                           20051110
         R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
             IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL,
             BA, HR, MK, YU
PRIORITY APPLN. INFO.:
                                          US 2004-626761P 20041110
                                          WO 2005-US40952 20051110
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

GI

AB The invention relates to heterocyclic compds. of formula I, compns. including the compds. and methods of using and methods of making thereof. The compds. (and compns.) are useful, inter alia, in modulating IL-12 production and processes mediated by IL-12. Compds. of formula I wherein X and R1, taken together, are CONR'R''; X is (un)substituted (thio)carbonylamino, (un) substituted amino(thio) carbonyl, C(=NH)NH and derivs., NHC(NH) and derivs., (un)substituted amino(thio)carbonylamino, NHC(=NH)NH and derivs., etc.; R1 is R6-L-R7; R6 is (un)substituted (hetero)cycloalkyl, (un)substituted cyclyl, (un)substituted (hetero)aryl(alkyl), or absent; L is O, S, SO, SO2, NH and derivs., NHCO and derivs., CONH and derivs., COO or OCO or absent; R7 is H, (un)substituted alkyl, (un)substituted cyclyl, (un)substituted (hetero)cycloalkyl, (un)substituted (hetero)aryl(alkyl) etc; Q, U, and V are independently N or CRg, wherein at least one of Q, U or V is N; R3 is Rg, CHO and derivs., (thio)formyl, (oxy)acyl, sulfanyl(thio)acyl, amino(thio)acyl, C(=NH)H and derivs., etc.; Rg, R2 and R4 are independently H, (un)substituted alkyl(carbonyl), OH and derivs., SH and derivs., NH2 and derivs., hydroxyalkyl, (thio)formyl, (oxy)(thio)acyl, sulfanyl(thio)acyl, etc.; R' and R'' are independently H, (un) substituted alkyl, (un) substituted alkenyl, (un) substituted alkynyl, (un) substituted (hetero) cyclyl, (un) substituted (hetero)cycloalkyl, (un)substituted (hetero)aryl(alkyl), etc; G is hydrazide, hydrazone, hydrazine, hydroxylamine, oxime, amide, ester, carbonate, carbamate, etc; W is O, S, SO, SO2, NH and derivs., aminoacyl; m is 0-4; and their pharmaceutically acceptable salts, solvates, clathrates, hydrates, or polymorphs are claimed. Example compound II was prepared by substitution of Me 2,4-dichloropyrimidine-6-carboxylate with N-(2-hydroxyethyl)morpholine to give Me 2-chloro-6-[2-(morpholin-4-yl)ethoxy]pyrimidine-6-carboxylate, which reacted with morpholine to give Me 2-morpholino-6-[2-(morpholin-4yl)ethoxy]pyrimidine-6-carboxylate, which underwent amidation with 5-amino-2,3-dimethylindole to give example compound II. All the invention compds. were evaluated for their IL-12 inhibitory activity. From the assay, noumerous of the invention compds. exhibited in vitro IC50 values < 1uM against human PBMC or THP-1 cells.

G-G2

195-196

8910) 8923

G25 = pyridy1 G33 = NH

Patent location:

Note:

Note: additional substitution also claimed Note: or pharmaceutically acceptable salts, solvates, clathrates, hydrates, or polymorphs

substitution is restricted

claim 1

L24 ANSWER 11 OF 19 MARPAT COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: TITLE:

144:488685 MARPAT Full-text Heteroaryl compounds, particularly N-heteroaryl hydrazones, their preparation, and their therapeutic use as IL-12 production inhibitors

INVENTOR(S): Sun, Lijun; Zhang, Shijie; Koya, Keizo; Chimmanamada,

Dinesh; Li, Hao; James, David; Kostik, Elena

PATENT ASSIGNEE(S): Synta Pharmaceuticals Corp., USA SOURCE: PCT Int. Appl., 172 pp.

SOURCE: PCT Int. Appl., 177
CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

GT

PAT	ENT :	NO.		KI	ND	DATE			Al	PPLI	CATI	ои ис	ο.	DATE			
WO	2006	0531	09	A.	1	2006	0518		W	20	05-U	\$407	06	2005	1110		
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KN,	KP,	KR,
		KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,	MW,	MX,
		MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,
		SG,	SK,	SL,	SM,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,
		VN,	YU,	ZA,	ZM,	ZW											
	RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,
		IS,	IT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,
		GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
		KG,	KΖ,	MD,	RU,	ТJ,	TM										
US	2006	1221	56	A.	1	2006	0608		U	S 20	05-2	7170	4	2005	1110		
RIORITY	APP	LN.	INFO	. :					U	S 20	04-6	2700	1P	2004	1110		

AB The invention is related to the preparation of heteroaryl compds. I [Q, U, V = independently N, CH and derivs.; Z = H, NH2 and derivs., OH and derivs., (un)substituted cyclo/alkyl, etc.; X = O, S, SO, CO, N:N, NHCO, etc.; R = R'-L'-R'; R' = (un)substituted cycloalkyl, cyclyl, aryl, etc.; L' = O, S, NH and derivs., absent, etc.; R' = W, OH and derivs., halo, CN, alkyl, aryl, etc.; R1 = (CR2R4)n-G-R3; Y = CO, O, S, NH and derivs., absent, etc.; R3 = H, (un)substituted alk(en/nyl), heteroaryl, OSCOH, CHO, etc.; R2, R4 for each occurrence = independently (un)substituted alkyl, alkylcarbonyl, OH and derivs., NO, halo, CN, etc.; G = NH-C(NH)-NH, NH-CO-NH, NH-CS-NH, hetero/arylene, absent, etc.; n = O-7], and pharmaceutically acceptable salts, solvates, clathrates, hydrates, prodrugs, and polymorphs thereof. The invention is also related to methods of modulating II--12 production and

processes mediated by IL-12. E.g., a 4-step synthesis from 2,4,6trichloropyrimidine and diethylamine was given for hydrazone II. I inhibited IL-12 production in human PBMC cells and THP-1 cell line in an in vitro assay. Thus, I are useful for treating or preventing disorders related with excessive bone loss, methods for inhibiting osteoclast formation, and methods for treating or preventing a disorder associated with excessive bone resorption.

MSTR 18

195-196

8610) BAR



G25 = pyridyl

Patent location: Note:

Note: Note: claim 1

substitution is restricted additional substitution also claimed

or pharmaceutically acceptable salts, solvates, clathrates, hydrates, or polymorphs

REFERENCE COUNT: 2

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 12 OF 19 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 142:114071 MARPAT Full-text

TITLE: Preparation of substituted 5-membered ring compounds

as heat shock protein 90 (HSP90) inhibitors

INVENTOR(S): Cheung, Kwai Ming; Dymock, Brian William; MacDonald,

Edward; Drysdale, Martin James

English

PATENT ASSIGNEE(S): Vernalis Cambridge Limited, UK; Cancer Research

Technology Ltd.; The Institute of Cancer Research

SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: EN FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PRIORITY APPLN. INFO.:

	TENT :			KI	ND	DATE			Al		CATI			DATE			
	2005			A	1	2005	0106		W		04-G			2004	0624		
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NA,	NI,
		NO,	ΝZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
		ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	ΜZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
		ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	TJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,
		SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,
		SN,	TD,	TG													
ΕP	1638	555		A.	1	2006	0329		E	P 20	04-7	4310	6	2004	0624		
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙT,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	FI,	RO,	CY,	TR,	BG,	CZ,	EE,	HU,	PL,	SK				
US	2006	2350.	58	A.	1	2006	1019		U	S 20	05-5	6196	9	2005	1222		

GB 2003-15111

WO 2004-GB2755

20030627

20040624

G

AB Title compds. I [wherein A = 5-membered cycle; Rl = (un)substituted (hetero)aryl; R2 (adjacent to Rl) = absence, H, carboxamide, (un)substituted (hetero)aryl, carbocycle or heterocycle; R3 (adjacent to R2) = absence, H,

(un)substituted cycloalky(en)yl, alk(en/yn)yl, carboxyl, carboxamide or ester; with some limitations, or salts, N-oxides, hydrates or solvates thereof| were prepared as heat shock protein 90 (HSP90) inhibitors. Thus, 5-chloro-2, 4-dimethoxyphenylamine was treated with NaNO2 in the presence of H2SO4 followed by the addition of NaN3. The resultant azide underwent cyclization with 3-(4-fluorophenyl)-3-oxopropionic acid Me ester gave intermediate II (X = 000e, R=0H). Demethylation of this compound with 498 HBr followed by esterification with EtOH yielded triazolecarboxylate II (X = 00l, R = 0Et), which showed ICSO (10 μ M for binding to HSP90 in a fluorescence polarization assay. Therefore, I and their compns. are useful for immunosuppression or the treatment of cancers, viral disease, inflammatory diseases and so on.

```
MSTR 1
G1
92-922
G2
G3
     = 56-2 57-5 58-7
G8
     = 166-1 167-3
1811-1812
   = phenylene (substd. by 1 or more G10)
   = 174-166 175-3
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G13 = 180

18068

G15 = pvridvl

Patent location: claim 1

Note: substitution is restricted

Note: or salts, N-oxides, hydrates or solvates

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 13 OF 19 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 140:77140 MARPAT Full-text

TITLE: Preparation of thiazolyl aryl ureas as activators of

glucokinase

INVENTOR(S): Polisetti, Dharma Rao; Kodra, Janos Tibor; Lau,
Jesper; Bloch, Paw; Valcarce-Lopez, Maria Carmen;
Blume, Niels; Guzel, Mustafa; Santhosh, Kalpathy
Chidambareswaran; Mjalli, Adnan M. M.; Andrews, Robert

Carl; Subramanian, Govindan; Ankersen, Michael; Vedso, Per; Murray, Anthony; Jeppesen, Lone

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.; Valcarce-Lopez, mariacarmen; et al.

SOURCE: PCT Int. Appl., 600 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 9

PATENT INFORMATION:

PAT	TENT :	мо.			ND	DATE					CATI			DATE			
WO	2004				1	2004	0108							2003	0627		
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM
		PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	ΤJ,	TM,	TN
		TR,	TT,	TZ,	UA,	UG,	US,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	ZW			
	RW:	GH,	GM,	KΕ,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY
		KG,	ΚZ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES
		FΙ,	FR,	GB,	GR,	HU,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR
		BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	ΤG
CA	2488	642		A.	1	2004	0108		C	A 20	03-2	4886	42	2003	0627		
AU	2003	2439	21	A.	1	2004	0119		A	J 20	03-2	4392	1	2003	0627		
	2003																
EΡ	1531	815		A.	1	2005	0525		E	20	03-7	6144	6	2003	0627		
	R:													NL,			PT
														EE,		SK	
	1678													2003			
	2005													2003			
	1011													2003			
	2004									5 20	03-6	7988	7	2003	1006		
IN	2004	CN02	911	A		2006	0217		11	1 20	04-C	N291	1	2004	1221		

			10/202,07	5	
MX 2005PA00130	A	20050217	MX	2005-PA130	20050103
NO 2005000426	A	20050329	NO	2005-426	20050126
ZA 2005000766	A	20060531	ZA	2005-766	20050126
US 2006183783	A1	20060817	US	2006-365534	20060301
PRIORITY APPLN. INFO.:			DK	2002-999	20020627
			US	2002-394144P	20020703
			DK	2003-286	20030225
			US	2003-452228P	20030305
			CN	2003-820170	20030627
			WO	2003-DK449	20030627
GI					

AB The title compds. [I; Al = arylene, heteroarylene, fused cycloalkylarylene, etc.; L1 = a bond, O, S, SO, etc.; G1 = alkyl, cycloalkyl, cycloalkylakylene, etc.; L2 = a bond, alkylene, alkenylene, etc.; L3 = CO, COCO, COCH2CO, SO2; R1 = alkyl, alkenyl, alkynyl, etc.; G2 = heteroaryl, fused heterocyclylheteroaryl, cycloalkylheteroaryl, etc.] which are activators of glucokinase and may be useful for the management, treatment, control, or adjunct treatment of diseases, where increasing glucokinase activity is beneficial (no data), were prepared and formulated. Thus, reacting 2-phenoxyaniline with 2-aminothiazole and 1,1'-carbonyldiimidazole afforded 95% the urea II.

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MSTP 1
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G1 = G29 / 166

1668-1629

G3 = C(0) G4 = NH G10 = phenylene (opt. substd. by 1 or more G12) G16 = pyridyl G29 = 113



Patent location: claim 1

Note: or pharmaceutically acceptable salts, solvates, or

prodrugs

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 14 OF 19 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 141:140463 MARPAT Full-text

TITLE: Preparation of heterocyclic compounds as selective

phosphodiesterase V inhibitors

INVENTOR(S): Yamada, Koichiro; Matsuki, Kenji; Omori, Kenji;

Kikkawa, Kohei

PATENT ASSIGNEE(S): Japan

SOURCE: U.S. Pat. Appl. Publ., 116 pp., Cont.-in-part of U.S. Ser. No. 258,545.

CODEN: USXXCO Patent

DOCUMENT TYPE:

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO	. KIND	DATE	APPLICATION NO.	DATE
	12930 A1 58 B2		US 2003-699804	20031104
JP 20020		20020115	JP 2000-277652	20000913
WO 200108	33460 A1	20011108	WO 2001-JP2034	
			BA, BB, BG, BR, BY, DZ, EE, ES, FI, GB,	
			KE, KG, KR, KZ, LC, MW, MX, MZ, NO, NZ,	
5			TM, TR, TT, TZ, UA,	
RW: 0	GH, GM, KE, L		SL, SZ, TZ, UG, ZW, IE, IT, LU, MC, NL,	
1	BJ, CF, CG, C	I, CM, GA, GN,	GW, ML, MR, NE, SN,	TD, TG
	29089 AI 36 B2		US 2002-258545	20021025
	27037 A1	20080131	US 2007-889749 JP 2000-130371 JP 2000-277652 WO 2001-JP2034 US 2002-258545 JP 1999-261852 US 2003-699804	20000428 20000913 20010315 20021025 19990916
			05 2005-055004	20031104

G1

The title compds. (I) [X = CH, N; Y = NH, NR, S, O, CH:N, N:CH, N:N,AB CH:CHC(:R5)N, CH:C(R5), N:C(R7); R1 = each (un)substituted lower alkoxy, amino, heterocyclyl containing N atom(s), HO, or heterocyclyloxy containing N atom(s), cyano; R2 = lower alkylamino or lower alkoxy each optionally substituted by an (un)substituted aryl, lower alkoxy group substituted by an aromatic heterocyclic ring containing N atom(s), lower alkylamino group substituted by a (un)substituted heterocyclic ring, (un)substituted arylamino; R3 = each (un)substituted arvl, heterocyclyl containing N atom(s), lower alkyl, lower alkoxy, lower cycloalkoxy, heterocyclyloxy containing N atom(s), or NH2; R4-R7 = each (un)substituted arvl, heterocyclyl containing N atom(s), lower alkoxy, or NH2; R4, R5, R6 or R7 may combine with R3 to form a lactone ring Q or Q1; when X = N, Y = CH:N, or N:CH, R2 = an amino group monosubstituted by an (un)substituted arylmethyl, and R3 = (un)substituted lower alkyl, amino monosubstituted by an (un)substituted heterocyclyl-lower alkyl containing N atom(s) in the ring, heterocyclylamino containing N atom(s) in the ring, or (un) substituted lower cycloalkylamino, R1 = each (un) substituted lower alkoxy, amino, heterocyclyloxy containing N atom(s) in the ring, or cyano group] or pharmacol. acceptable salts thereof are prepared These compds. have excellent selective PDE V inhibitory activity and therefore, are useful as therapeutic or prophylactic drugs for treating various diseases due to functional disorders on cGMP-signaling, such as erectile dysfunction, pulmonary hypertension, and diabetic gastroparesis. Thus, 2-(hydroxymethyl) pyridine was treated with NaH in THF and etherified with 2-chloro-5-(3,4,5- trimethoxyphenylcarbonyl)-4-(3-chloro-4methoxybenzylamino)pyrimidine to give 2-(2-pyridylmethoxy)-5-(3.4.5trimethoxyphenylcarbonyl)-4-(3-chloro-4- methoxybenzylamino)pyrimidine.

MATE 1

$$G2 = 14-4 \ 15-2$$

G18 = CH G27 = 329

3939-G40

G39 = NH

G40 = pyridyl (opt. substd. by alkyl <containing 1-6 C>)

Patent location: claim 1

Note: additional ring formation also claimed Note: substitution is restricted Note: or pharmacologically acceptable salts

L24 ANSWER 15 OF 19 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 137:369830 MARPAT Full-text

TITLE: Preparation of terphenyls and related polyaromatic compounds as proteomimetics for inhibiting the

interaction of an α -helical protein with another

protein or binding site
INVENTOR(S): Hamilton, Andrew D.; Er:

INVENTOR(S): Hamilton, Andrew D.; Ernst, Justin; Orner, Brendan PATENT ASSIGNEE(S): Yale University, USA

SOURCE: PCT Int. Appl., 142 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PAT	ENT I	. OI		KI	ND	DATE			Al	PPLI	CATI	N NC	٥.	DATE			
WO	2002	0897	38	A:	2	2002	1114		W	20	02-U	S144	94	2002	0508		
WO	2002	0897	38	A.	3	2003	0410										
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	ΗU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	NZ,	PL,	PT,
		RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ΤJ,	TM,	TR,	TT,	TZ,	UA,	UG,	UΖ,
		VN,	YU,	ZA,	zw												
	RW:	GH,	GM,	KΕ,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
		KG,	KΖ,	MD,	RU,	TJ,	TM,	ΑT,	BE,	CH,	CY,	DE,	DK,	ES,	FΙ,	FR,	GB,
		GR,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,
		GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	ΤG							
CA	2446	380		A:	1	2002	1114		C	A 20	02-2	4463:	80	2002	0508		
ΑU	2002	3054	50	A.	1	2002	1118		A)	J 20	02-3	0545	0	2002	0508		
	2003								U	S 20	02-1	4212	6	2002	0508		
US	6858	600		B.	2	2005	0222										
ΕP	1408	986		A.	2	2004	0421		E	P 20	02-7	3426	9	2002	0508		
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR US 2005215563 A1 20050929

US 2005-43697 20050125 B2 20071225

US 7312246 PRIORITY APPLN. INFO.:

US 2001-289640P 20010508 US 2002-142126 20020508 WO 2002-US14494 20020508

WBXBY [X = (substituted) Ph, pyridyl, piperazinyl, diketopiperazinyl, AB oxopiperidinyl, pyrrolyl, thienyl, imidazolyl, furyl, oxazolyl, etc.; W, Y = (substituted) Ph. pyridinyl, pyrimidinyl, thiazolyl, furyl, etc.; B = bond, ester, amide linkagel, were prepared Thus, 3-[4"-(cvanomethoxy)-2,3"diisobutyl-3'-isopropyl-1,1':4',1''-terphenyl-4-yl]propanenitrile (preparation given) was stirred with aqueous NaOH in MeOH at 50° for 24 h to give 3-[4''-(carboxymethoxy)-2,3''-diisobutyl-3'-isopropyl-1,1':4',1''- terphenyl-4vl|propanoic acid. The latter inhibited HIV-1 mediated cell-to-cell fusion with IC50 = 15.70 µg/mL.

MSTR 1



$$G2 = 4-pyridyl / 315$$

395-3960)

G4 = bond G5 = NH

Patent location:

claim 1 Note: or pharmaceutically acceptable salts

L24 ANSWER 16 OF 19 MARPAT COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 137:288985 MARPAT Full-text TITLE: Inhibitors of prenvl-protein transferase INVENTOR(S): Desolms, S. Jane; Shaw, Anthony W. PATENT ASSIGNEE(S): Merck & Co., Inc., USA

SOURCE: PCT Int. Appl., 109 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

	PAT	ENT I	NO.		KI	ND	DATE			A	PPLI	CATI	ON N	ο.	DATE			
										-								
	WO	2002	0787	02	A	1	2002	1010		W	0 20	02-U	S920	8	2002	0326		
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KR,	KZ,	LC,	LK,	LR,	LS,
			LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,	PL,
			PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,
			UG,	US,	UZ,	VN,	YU,	ZA,	ZM,	ZW								
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AT,	BE,	CH,
			CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,
			BF,	BJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
	AU	2002	2525	02	A	1	2002	1015		A	U 20	02-2	5250	2	2002	0326		
PRIO	RIT	APP:	LN.	INFO	. :					U	S 20	01-2	8061	0P	2001	0330		
										W	0 20	02-U	S920	8	2002	0326		

AB The present invention is directed to compds. which inhibit a prenyl-protein transferase (FTase) and the farnesylation of the oncogene protein Ras. The compds of the present invention comprise non-prodrug, non-thiol compds that contain a spirocyclic pyrrolidinyl moiety. The invention is further directed to chemotherapeutic compns. containing the compds of this invention and methods for inhibiting a prenyl-protein transferase and the prenylation of the oncogene protein Ras.

MSTR 1

$$\bigcup_{l=1}^{G14} \bigcup_{j=16-G19-5}^{G1} 01$$

```
G1 = imidazolyl (opt. substd.)

G14 = (1-3) CH2

G16 = phenylene (opt. substd. by (1-4) G17)

G19 = 122-7 123-58
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1940 1932

```
G22 = NH (opt. substd.)
G27 = pyridyl (opt. substd.)
Patent location: claim 1
Note: or pharmaceutically acceptable salts
```

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 17 OF 19 MARPAT COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 135:357948 MARPAT Full-text

TITLE: Preparation of heterocyclic compounds as phosphodiesterase V (PDE V) inhibitors

INVENTOR(S): Yamada, Koichiro; Matsuki, Kenji; Omori, Kenji;

Kikkawa, Kohei

PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan

SOURCE: PCT Int. Appl., 207 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 3 PATENT INFORMATION:

P	ATENT					DATE					CATI			DATE			
W	2001	0834	60	А	1	2001	1108		W	20	01-J	P203	4				
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		со,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,
		HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,
		LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,	RU,
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		YU,	ZA,	ZW													
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
		ΒJ,	CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG		
	J 2001																
C	A 2407	231		A	1	2002	1023		C	A 20	01-2	4072	31	2001	0315		
E	2 1277	741		A	1	2003	0122		E	P 20	01-9	1237	3	2001	0315		
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						FΙ,											
	5222																
	N 1657																
U	2003	2290	89	A	1	2003	1211		U:	S 20	02-2	5854	5	2002	1025		
	7220																
	K 2002																
	2004								U;	S 20	03-6	9980	4	2003	1104		
U	7273	868		В	2	2007	0925										
	J 2005																
	2008				1	2008	0131										
PRIORI'	TY APP	LN.	INFO	.:										2000			
														2000			
														2001			
									W	20	01-J	P203	4	2001	0315		
									U:	S 20	02-2	5854	5	2002	1025		
									U	S 20	03-6	9980	4	2003	1104		

GI

AB Compds. of the general formula (I) or pharmacol. acceptable salts thereof [wherein X is :CH or N; Y is NH, NR4, S, O, CH:N, N:CH, N:N, CH:CH, or the like; R1 is lower alkoxy, amino, a nitrogenous heterocyclic group, or a hydroxyl group substituted with a heterocyclic group (wherein each group may be substituted); R2 is either a lower alkylamino or lower alkoxy group which may be substituted with arvl. or a lower alkoxy group substituted with a nitrogenous aromatic heterocyclic group; and R3 is arvl, a nitrogenous heterocyclic group, lower alkyl, lower alkoxy, lower cycloalkoxy, a hydroxyl group substituted with a nitrogenous heterocyclic group, or amino (wherein each group may be substituted), or alternatively, R3 and the substituent of Y may be united to form a lactone ring] or pharmacol. acceptable salts thereof are prepared These compds. exhibit excellent PDE V inhibitory activity and are useful as preventive or therapeutic agents for various diseases due to dysfunction of the signal transduction through cGMP, in particular impotence, pulmonary hypertension, and diabetic renal failure paralysis (no data). Thus, 2-(hydroxymethyl)pyridine was treated wit NaH in THF at room temperature for 30 min and then condensed with 2-chloro-5-(3,4,5-trimethoxyphenylcarbonyl)-4-(3-chloro-4- methoxybenzylamino)pyrimidine (preparation given) in THF at room temperature for 1 h to give 2-(2-pyridylmethoxy)-5-(3,4,5trimethoxyphenylcarbonyl)-4-(3- chloro-4-methoxybenzylamino)pyrimidine.

MSTR 1

$$G2 = 14-4 \ 15-2$$

```
G18 = CH
G27 = 329
```

3939-G40

G39 = NH

G40 = pyridyl (opt. substd. by alkyl <containing 1-6 C>)

claim 1 Patent location:

Note: additional ring formation also claimed Note: substitution is restricted

Note: or pharmacologically acceptable salts

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 18 OF 19 MARPAT COPYRIGHT 2008 ACS on STN ACCESSION NUMBER:

130:66494 MARPAT Full-text TITLE:

Preparation of novel quanidine mimics as factor Xa

inhibitors

Lam, Patrick Y.; Clark, Charles G.; Dominguez, Celia; INVENTOR(S): Fevig, John Matthew; Han, Qi; Li, Renhua; Pinto, Donald Joseph-Phillip; Pruitt, James Russell; Quan,

Mimi Lifen

PATENT ASSIGNEE(S):

The Du Pont Merck Pharmaceutical Company, USA SOURCE: PCT Int. Appl., 268 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Pat.ent. LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PAT														DATE			
WO														1998			
	W:	AU,	BR,	CA,	CN,	CZ,	EE,	HU,	IL,	JΡ,	KR,	LT,	LV,	MX,	NO,	NZ,	PL,
		RO,	SG,	SI,	SK,	UA,	VN,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM	
	RW:	ΑT,	BE,	CH,	CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,
		PT,															
														1998			
CA	2291	442		A:	1	1998	1223		CZ	19	98-2	2914	42	1998	0618		
ΑU	9879	768		A		1999	0104		ΑU	J 19	98-7	9768		1998	0618		
ΑU	7567	55		B:	2	2003	0123										
EP	9916	38		A	1	2000	0412		E	19	98-9	3036	1	1998	0618		
ΕP	9916	38		В	1	2005	0817										
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	PT,	ΙE,
						RO											
														1998			
									E	E 19	99-5	83		1998	0618		
	4153																
HU	2000	0026	86	A:	2	2002	0128		H	J 20	00 - 2	686		1998	0618		
HU	2000	0026	86	A.	3	2002	0228										
JP	2002	5056	86	T		2002	0219		JI	2 19	99-5	0478	5	1998	0618		
NZ	5023	70		A		2002	1025		N2	3 19	98-5	0237	0	1998	0618		
AΤ	3021	98		T		2005	0915		A.	Г 19	98-9	3036	1	1998	0618		
ES	2244	064		T.	3	2005	1201		E	3 19	98-9	3036	1	1998	0618		
RO	1205	43		В	1	2006	0330		R	19	99-1	317		1998	0618		

ΙI

		1	1,9,69,01	3	
PL 192941	В1	20061229	PL	1998-337756	19980618
SK 285685	B6	20070607	SK	1999-1728	19980618
TW 544453	В	20030801	TW	1998-87109910	19980819
NO 9905965	A	19991203	NO	1999-5965	19991203
NO 318359	B1	20050307			
MX 9911908	A	20000531	MX	1999-11908	19991216
LV 12496	В	20010120	LV	1999-178	19991216
LT 4705	В	20000925	LT	1999-147	19991217
PRIORITY APPLN. INFO.:			US	1997-878884	19970619
			WO	1998-US12680	19980618
0.7					

AB The title compds. [I; rings D-E represent guanidine mimics; ring D = CH2N:CH, CH2CH2N:CH, a 5-6 membered aromatic system containing 0-2 heteroatoms selected form the group N, O, and S; ring D is substituted with 0-2 R (substituents), provided that when ring D is unsubstituted, it contains at least one heteroatom; ring E contains 0-2 N atom and is substituted by 0-1 R; R = halo, OH, Cl-3 alkoxy, etc.; M = (un)substituted pyrazole, imidazole, tetrazole, etc.], inhibitors of factor Xa which are useful in treating and preventing a thromboembolic disorder, were prepared and formulated. Thus, a multi-step synthesis of the title compound II, starting with 7-aminoisoquinoline, was described. A number of compds. I were found to exhibit a Ki of \leq 15 $\mu\rm M$ against factor Xa.

MSTR 1

G 4-G 1-G 2 2-G 2 9-G 3 1

G1 = 598-1 597-3



G4 = naphthy1 (opt. substd. by 1 or more G5) G22 = 172-2 174-98

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1636-0(0)-638
```

G26 = NH (opt. substd.) G28 = (0-3) CH2

G29 = phenylene (opt. substd.) G31 = 454

G48 = bond

Derivative: or pharmaceutically acceptable salts

Patent location: claim 1

Note: additional ring formation also claimed
Note: substitution is restricted

Note: additional substitution also claimed

Stereochemistry: or stereoisomers

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 19 OF 19 MARPAT COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 130:81510 MARPAT Full-text

TITLE: Preparation of phenylpyrazolecarboxamides as

coagulation factor Xa inhibitors

INVENTOR(S): Galemmo, Robert Anthony, Jr.; Dominguez, Celia; Fevig,
John Matthew; Han, Qi; Lam, Patrick Yuk-sun; Pinto,

Donald Joseph Philip; Pruitt, James Russell; Quan, Mimi Lifen

PATENT ASSIGNEE(S): The Du Pont Merck Pharmaceutical Company, USA

SOURCE: PCT Int. Appl., 259 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA:	TENT I	. OP		KI	AD.	DATE			Al	PPLI	CATI	ON N	ο.	DATE			
WO	9857	937		A:	2	1998	1223		W	19	98-U	S126	81	1998	0618		
WO	9857	937		A:	3	1999	0318										
	W:	AU,	BR,	CA,	CN,	CZ,	EE,	HU,	IL,	JP,	KR,	LT,	LV,	MX,	NO,	NZ,	PL,
		RO,	SG,	SI,	SK,	UA,	VN,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM	
	RW:	AT,	BE,	CH,	CY,	DE,	DK,	ES,	FΙ,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,
		PT,	SE														
za	9805	251		A		1999	1217		Z	A 19	98-5	251		1998	0617		
CA	2290	982		A	1	1998	1223		Ç.	A 19	98-2	2909	82	1998	0618		
ΑU	9881	503		A		1999	0104		A	J 19	98-8	1503		1998	0618		
US	5998	424		A		1999	1207		U	3 19	98-9	9752		1998	0618		
EP	9916	25		A.	2	2000	0412		E	2 19	98-9	3135	5	1998	0618		
EP	9916	25		В	1	2005	0601										

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,

US 1999-393782 19990910

21, 11, 1	v, г.,	- NO			
9810151	A	20000808	BR	1998-10151	19980618
9900584	A	20000815	EE	1999-584	19980618
20208	A	20001031	SI	1998-20043	19980618
2000003906	A2	20010528	HU	2000-3906	19980618
2002507968	T	20020312	JP	1999-504786	19980618
296805	T	20050615	AT	1998-931355	19980618
2239806	Т3	20051001	ES	1998-931355	19980618
991625	T	20051031	PT	1998-931355	19980618
6403620	B1	20020611	US	1999-393782	19990910
9910588	A	20010910	MX	1999-10588	19991117
12516	В	20010320	LV	1999-177	19991216
9906316	A	19991217	NO	1999-6316	19991217
4702	В	20000925	LT	1999-146	19991217
2003092740	A1	20030515	US	2002-150698	20020516
6602895	B2	20030805			
Y APPLN. INFO.:			US	1997-50219P	19970619
			US	1997-878885	19970619
			US	1998-76691P	19980227
			US	1998-99752	19980618
			WO	1998-US12681	19980618
	9810151 9900584 20208 2000003906 2002507968 296805 2239806 991625 6403620 9910588 12516 9906316 4702 2003992740 6602855	9810151 A 20208 A 202008 A 2000003906 A2 2002507968 T 296805 T 296805 T 991625 T 6403620 B1 9910588 A 12516 B 9906316 A 4702 B 2003092740 A1 6602895 B2	9810151 A 2000808 9900584 A 2000815 20208 A 20001031 200000396 A2 20010528 2002507968 T 20020312 296805 T 20051001 991625 T 20051001 991625 T 20051001 991626 B1 20020611 9910588 A 20010910 12516 B 20010320 996316 A 19991217 4702 B 2000925 2003092740 A1 20030805	9810151 A 20000808 BR 9900584 A 20000815 EE 20208 A 20001031 SI 200000396 AZ 20010528 HU 2002507968 T 20020312 JP 296805 T 20050015 AT 20050615 T 20051031 PT 20051058 A 20051051 PT 20051051 DS 20051051 PT 20051051 DS 20051	9810151 A 20000808 BR 1998-10151 9900584 A 20000815 EE 1999-584 20208 A 20001031 SI 1998-20043 2000003906 A2 20010528 HU 2000-3906 2002507968 T 20020312 JP 1999-504786 256805 T 20050615 AT 1998-931355 991625 T 20051031 PT 1998-931355 991625 T 20051031 PT 1998-931355 6403620 B1 20020611 US 1999-393782 9910588 A 20010910 MX 1999-10588 12516 B 20010320 LV 1999-177 9906316 A 19991217 NO 1999-6316 4702 B 2000925 LT 1999-146 2003092740 A1 20030805

.

AB EZIM [I; E = halo, OH, alkyl, alkoxy, etc.; M = 22ZAB; A = (un)substituted carbocyclylene, -heterocyclylene; B = H, Y, XY; X = alkylene, CO, O, (un)substituted NH, etc.; Y = amino(alkyl), substituted carbocyclyl, -heterocyclyl, etc.; Z = bond, (heteroatom- or functional group-interrupted) alkylene, etc.; Z1 = (un)substituted Fh, Z2 = N-containing heteroarylene, etc.] were prepared Thus, MeCOCH2C(:NOMe)CO2Et was cyclocondensed with PhNHN2 and the product amidated by 4-(H2N)CEH4C6H4(SOXINCMe3)-2 to give, after deprotection, title compound II. Data for biol. activity of I were given.

MSTR 1

ç 4---- ç 1---- ç 2 2---- ç 2 9--- G 3 1

G1 = 598-1 597-3



```
G4 = Ph (substd. by 1 or more G5)
G22 = 172-2 174-98

1936-C(0)938

G26 = NH (opt. substd.)
G28 = (0-3) CH2
G29 = phenylene (opt. substd.)
G31 = 454
```

G27_X454 G48

G48 = bond Derivative:

or pharmaceutically acceptable salts

Patent location: claim 1

Note: additional ring formation also claimed Note: substitution is restricted

Note: additional substitution also claimed Stereochemistry: or stereoisomers

=> fil cap disabs confsci wpix FILE 'CAPLUS' ENTERED AT 10:14:16 ON 26 MAR 2008 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'DISSABS' ENTERED AT 10:14:16 ON 26 MAR 2008

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FILE 'WPIX' ENTERED AT 10:14:16 ON 26 MAR 2008 COPYRIGHT (C) 2008 THE THOMSON CORPORATION

=> d que 123

945 SEA ("KOIKE A"/AU OR "KOIKE A A G C L"/AU OR "KOIKE A D C"/AU OR "KOIKE A M M"/AU OR "KOIKE A S C E I"/AU OR "KOIKE A U"/AU

OR "KOIKE AKIO"/AU) L18 151 SEA ("IWAHASHI Y"/A

151 SEA ("IWAHASHI Y"/AU OR "IWAHASHI Y A G C L"/AU OR "IWAHASHI YASUTOMI"/AU)

L19 398 SEA ("TAKIMOTO Y"/AU OR "TAKIMOTO Y S C"/AU OR "TAKIMOTO
YASUYIKI"/AU OR "TAKIMOTO YASUYUKI"/AU OR "TAKIMOTO YASUYUKU"/A

L20 134 SEA ("KIKUGAWA S"/AU OR "KIKUGAWA S A G C L"/AU OR "KIKUGAWA S
M M"/AU OR "KIKUGAWA SHINNYA"/AU OR "KIKUGAWA SHINYA"/AU)

L21 1603 SEA (L17 OR L18 OR L19 OR L20)

L22 201 SEA L21 AND (SI OR SILIC?)

L23 39 SEA L22 AND (TI OR TITAN? OR TIO2)

=> dup rem 123

PROCESSING COMPLETED FOR L23

L25 24 DUP REM L23 (15 DUPLICATES REMOVED)
ANSWERS '1-19' FROM FILE CAPLUS

ANSWERS '20-24' FROM FILE WPIX

=> d 125 ibib abs tot

L25 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2007:327846 CAPLUS Full-text

DOCUMENT NUMBER: 146:363765

TITLE: Tin- and titanium-doped silicate glass with low

thermal expansion and low concave defects for EUV

photolithography

INVENTOR(S): Kawata, Mitsuhiro; Takada, Akira; Hayashi, Hideaki; Sugimoto, Naoki; Kikugawa, Shinya

PATENT ASSIGNEE(S): Asahi Glass Company, Limited, Japan

SOURCE: PCT Int. Appl., 23pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: Fatent

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.				KIND DATE			i		ICAT:					ATE		
	2007				A1	-	2007	0322	1								
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		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	KE,	KG,	KM,	KN,	KP,	KR,
		KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,	MW,
		MX,	MY,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RS,	RU,
		SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,
		UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW								
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		IS,	IT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ΒJ,
		CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,
		GM,	KΕ,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
		KG,	KZ,	MD,	RU,	ТJ,	TM										
JP	2007	2384	25		A		2007	0920		JP 2	006-	2467	63		2	0060	912
PRIORITY	APP	LN.	INFO	. :						JP 2	005-	2695	78	- 2	A 2	0050	916
										JP 2	005-	3750	10	- 1	A 2	0051	227
										JP 2	006-	3102	1	- 1	A 2	0060	208

AB A silicate glass suitable as optical material for extreme-UV lithog. has a low coefficient of thermal expansion over 0-100° (0±250 ppb/°C), and is produced without formation of concave defects during polishing to achieve a high level of flatness. The silica glass contains 0.1-10% of SnO2 and 3-10% of TiO2, and has a homogeneity of the coefficient of thermal expansion at 0-100° of 50-200 ppb/°C, and a vickers hardness \$650.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2007:638871 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 147:77519

TITLE: Sealing compositions for colored cathode ray tubes INVENTOR(S): Tanabe, Ryuichi; Watanabe, Kazunari; Takimoto, Yasuyuki; Seqawa, Masaru; Horie, Noritoshi

PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

AB The compns. contain 80-96 mass% low-m.p. crystallizable glass powder and 4-20 mass% low-expansion ceramic filler, where the glass powder (free from F) contains: PbO 75-80, ZnO 9-13, B2O3 7-10, SiO2 1.65-2.4, BaO 1.5-2.3, SrO 0-1.5, CaO 0-1.5, PbO + ZnO 86-91 mass%, and ZnO/PbO ratio 0.11-0.17, and the ceramic filler contains: zircon powder 1-5, and Pb titanate powder 3-15 mass%. The obtained cathode ray tubes have high compressive strength.

L25 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 3

ACCESSION NUMBER: 2007:584358 CAPLUS Full-text

DOCUMENT NUMBER: 146:526331

TITLE: Method for molding of optical silica glasses containing TiO2 by using coated graphite molds INVENTOR(S): Kawada, Mitsuhiro; Koike, Akio; Iwahashi, Yasuomi;

Sugimoto, Naoki; Kikugawa, Shinya PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 11pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007131472	A	20070531	JP 2005-324913	20051109
PRIORITY APPLN. INFO.:			JP 2005-324913	20051109

AB The title method comprises following steps: coating a suspension solution containing average particle diameter 0.01-5 µm \$12 cm graphite molds to give coating amount 0.005-0.2 g/cm2, further coating a suspension solution containing 10-50 weight% average particle diameter 0.01-10 µm ZrO2 and 50-90 weight% average particle diameter 5-150 µm SiC to give coating amount 0.005-0.2 g/cm2, press molding the TiO2-containing silics glasses at 1500-1800°. The method provides high production efficiency by preventing foaming of the glasses.

L25 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 4 ACCESSION NUMBER: 2007:251678 CAPLUS Full-text

DOCUMENT NUMBER: 146:279075

TITLE: Molding of silica glass containing TiO?

INVENTOR(S): Kawada, Mitsuhiro; Koike, Akio; Iwahashi, Yasuomi;

Sugimoto, Naoki; Kihugawa, Shinya PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 8pp.

CODEN: JKXXAF DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE _____ ----_____ JP 2007055842 20070308 JP 2005-242846 20050824 JP 2005-242846 20050824 PRIORITY APPLN. INFO.:

The method involves applying a suspension containing SiC particles having average diameter 0.01-150 µm on a molding surface side of a graphite mold to satisfy coating weight per unit area 0.005-0.2 g/cm2, setting 7102-containing glass in the mold, and press-molding the glass at 1500-1800° to give a molded glass with desired shape. Bubble generation during molding is prevented, so that the molded glass is suitable for optical parts used in EUV lithog.

L25 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 5

ACCESSION NUMBER: 2006:768458 CAPLUS Full-text

DOCUMENT NUMBER: 145:193629

TITLE: Production of titanium silicate optical glass with low hydrogen content for extreme UV lithography INVENTOR(S): Koike, Akio; Iwabashi, Yasutomi; Shimodaira, Noriaki; Kikugawa, Shinya; Sugimoto, Naoki

PATENT ASSIGNEE(S): Asahi Glass Company, Limited, Japan

SOURCE: PCT Int. Appl., 34pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION.

PA	PATENT NO.					KIND DATE					ICAT				D	ATE	
	2006 2006	0802	41		A2		2006								2	0060	113
	W:	AE, CN, GE, LC, NA,	AG, CO, GH, LK, NG,	AL, CR, GM, LR, NI,	AM, CU, HR, LS, NO,	AT, CZ, HU, LT, NZ,	AU, DE, ID, LU, OM, TM,	AZ, DK, IL, LV, PG,	DM, IN, LY, PH,	DZ, IS, MA, PL,	EC, KE, MD, PT,	EE, KG, MG, RO,	EG, KM, MK, RU,	ES, KN, MN, SC,	FI, KP, MW, SD,	GB, KR, MX, SE,	GD, KZ, MZ, SG,
	RW:	YU, AT, IS, CF, GM,	ZA, BE, IT, CG, KE,	ZM, BG, LT, CI, LS,	ZW CH, LU, CM,	CY, LV, GA,	CZ, MC, GN, NA,	DE, NL, GQ,	DK, PL, GW,	EE, PT, ML,	ES, RO, MR,	FI, SE, NE,	FR, SI, SN,	GB, SK, TD,	GR, TR, TG,	HU, BF, BW,	IE, BJ, GH,
EP	2007	2104 702 BE, 2079	04 DE,	FR,	A A2 GB,	IT,	2006 2007 NL	1010		EP 2 US 2	006-	7009 7476	22 98		2	0050 0060 0070 0050	113 511

WO 2006-JP300777 W 20060113

AB Conventional Ti02-Si02 glass contains hydrogen atoms which, during deposition under ultrahigh vacuum conditions, will diffuse in the chamber and H2 mols. will be taken into the film formed. Hydrogen mols, will readily diffuse and thus change the optical characteristics of the multilayer film. In an optical material for EUV lithog., a multilayer film is deposited by ion beam sputtering on a silica glass having a TiO2 concentration of 3-12 mol.% and a hydrogen mol. content <5x1017 mols./cm3 in the glass.

L25 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 6

2006:31365 CAPLUS Full-text ACCESSION NUMBER:

DOCUMENT NUMBER: 144:112518

TITLE: Production of TiO2-doped silica glass with zero thermal expansion coefficient over wide temperature

INVENTOR(S): Koike, Akio; Iwabashi, Yasutomi; Takimoto,

Yasuyuki; Kikugawa, Shinya

PATENT ASSIGNEE(S): Asahi Glass Company, Limited, Japan SOURCE: PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

	PATENT NO.					KIND DATE						LICAT				D	ATE	
	WO	2006	0041	 69		A1		2006	0112			2005-				2	0050	630
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	, BG,	BR,	BW,	BY,	BZ,	CA,	CH,
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ	, EC,	EE,	EG,	ES,	FI,	GB,	GD,
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS.	, JP,	KE,	KG,	KM,	KP,	KR,	KZ,
			LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD	, MG,	MK,	MN,	MW,	MX,	MZ,	NA,
			NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT.	, RO,	RU,	SC,	SD,	SE,	SG,	SK,
												UA,						
			ZA,	ZM,	ZW													
		RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE.	ES,	FI,	FR,	GB,	GR,	HU,	IE,
			IS.	IT.	LT,	LU,	MC,	NL,	PL,	PT.	RO.	, SE,	SI,	SK,	TR.	BF,	BJ,	CF,
												, NE,						
												, UG,						
						TJ.		,	,	,		,					,	,
	EP	1761						2007	0314		EP :	2005-	7578	00		2	0050	630
		R:	DE.	FR.	GB,	IT.	NL											
	JP	2008	5050	43		T		2008	0221		JP :	2006-	5484	36		2	0050	630
	KR	2007	0283	54		A		2007	0312		KR 2	2006-	7217	93		2	0061	020
	US	2007	0428	93		A1		2007	0222		US 2	2006-	5898	75		2	0061	031
PRIO	RIT	Y APP	LN.	INFO	. :						JP :	2004-	1956	82		A 2	0040	701
												2005-					0050	
AB	А	T102-	-cont	aini	na s	dito	a o	lass	with			neffi						

AR A TiO2-containing silica glass with zero coefficient of thermal expansion over a wide temperature range comprises 3-10 weight% of TiO2, a OH group concentration of at most 600 ppm by weight and a Ti3+ concentration <70 ppm by weight The glasses have a fictive temperature of 1200° or less, a coefficient of thermal expansion of 0±150 ppb/°C over 0-100° range, and an internal transmittance T400-700 per 1 mm thickness at 400-700 nm of at least 80%. The TiO2-doped silicate glasses are produced by forming a porous glass body, fluorine-doping before oxygen treatment, densification and vitrification.

REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS 2 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ACCESSION NUMBER: 2006:359174 CAPLUS Full-text

DOCUMENT NUMBER: 144:374820

TITLE: Production of high transparent titanium silicate glass with zero thermal expansion coefficient in wide

temperature region

INVENTOR(S): Iwahashi, Yasuomi; Koike, Akio
PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent Japanese

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DAL

JP 2006103988 A 20060420 JP 2004-289783 20041001

JP 2004-289783 20041001

JP 2004-289783 20041001

PRIORITY APPLN. INFO.:

AB In the production process, flame hydrolytically deposited porous TiO2-SiO2 glass soot preforms are heated in nonreducing atmospheric to 1100-1650° to give sinters with d. of 2.0-2.3 g/cm3, then further heated to 1400-1700° in atmospheric of ≥0.01 Mpa for vitrification into high-transparent glass. Preferably, the resultant glass is heated to a temperature of equal to or above softening point and formed into desired shape. In the production, fluorine doping may be carried out so as to widen the temperature range of zero thermal expansion coefficient The production process inhibits generation of Ti3+ during sintering, so that the glass shows high transparency and is suitable for EUV (extreme-UV) lithog. exposure apparatus

L25 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 8

ACCESSION NUMBER: 2005:635024 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 143:137539

TITLE: Silica glass as periphery materials for optical INVENTOR(S): Koike, Akio; Iwahashi, Yasuomi
PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
SOURCE: Asahi Class Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkvo Koho, 13 pp. CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

> PATENT NO. KIND DATE APPLICATION NO. DATE JP 2005194118 A 20050721 JP 2004-389 20040105 WO 2005066090 A1 20050721 WO 2004-JP19834 20041228 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2006276323 A1 20061207 US 2006-435887

IIS 7294595 PRIORITY APPLN. INFO.:

B2 20071113

JP 2004-389 A 20040105 WO 2004-JP19834 A1 20041228

AB The glass contains 3-10 mass% of TiO2, and has thermal expansion coefficient at 0-100° CTE0-100 0±300 ppb/°, and inner transmittance at 200-700 nm wavelength range and thickness of 1 mm T200-700 ≤80%. Preferably, the glass also contains a reducing substance with respect to TiO2.

L25 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 9

ACCESSION NUMBER: 2004:878346 CAPLUS Full-text

DOCUMENT NUMBER: 141:353842

TITLE: Silica glass containing TiO2 with minimal thermal

expansion used for extreme UV lithography

INVENTOR(S): Iwahashi, Yasutomi; Koike, Akio Asahi Glass Company Limited, Japan

PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.				KIN	D	DATE		- 2	APPL	ICAT:	ION I	NO.		D.	ATE			
						-									-			
WO	2004	0898	39		A1		2004	1021	1	WO 2	004-	JP48	33		2	0040	402	
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,	
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	KΕ,	KG,	KΡ,	KR,	ΚZ,	LC,	LK,	
		LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NA,	NI,	NO,	
		ΝZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,	
		TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	zw		
	RW:	BW,	GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	
		BY,	KG,	ΚZ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	
		ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,	ΙT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	
		SK,	TR,	BF,	ΒJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	
		TD,	TG															
JP	2005	0229	54		A 20050127					JP 2	004-	6527.	5		2	0040	309	
EP	1608	598			A1		2005	1228	1	EP 2	004-	7255	04		2	0040	102	
EP	1608	598			B1		2007	0718										
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	PL,	SK,	HR
US	2005	2453	82		A1		2005	1103	1	US 2	005-	1728	72		2	0050	705	
PRIORIT	Y APP	LN.	INFO	. :						JP 2	003-	1004	95		A 2	0030	403	
						JP 2003-164669					A 2	0030	510					
						JP 2004-65275 A 2				A 2	0040	309						
									1	70 2	004-	JP48	33		W 2	0040	402	

AB A silica glass containing TiO2 has a fictive temperature of at most 1200°, an OH group concentration of at most 600 ppm, and a coefficient of thermal expansion of 0±200 ppb/°C at the temperature range from 0 to 100°.

REFERENCE COUNT: THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 10

ACCESSION NUMBER: 2004:878345 CAPLUS Full-text

DOCUMENT NUMBER: 141:353841

TITLE: Silica glass containing TiO2 and optical material for Extreme UV lithography

Iwahashi, Yasutomi; Kolke, Ario INVENTOR(S):

PATENT ASSIGNEE(S): Asahi Glass Company Limited, Japan

SOURCE: PCT Int. Appl., 33 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT	PATENT NO.				DATE			APPL	ICAT:	I NOI	.OV		D	ATE		
WO 2004	089838		A1	2	2004	1021	1	WO 2	004-	JP48:	29		2	0040	402	
W:	AE, A	G, AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,	
	CN, C	O, CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
	GE, G	H, GM,	HR,	HU,	ID,	IL,	IN,	IS,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	
	LR, L	S, LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,	NO,	
	NZ, O	M, PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,	
	TM, TI	N, TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW		
RW:	BW, G	H, GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	
	BY, K	G, KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	
	ES, F	I, FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	
	SK, T	R, BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	
	TD, T	3														
JP 2004	315351		A	2	2004	1111		JP 2	004-	7631:	2		2	0040	317	
EP 1608	599		A1	2	2005	1228	1	EP 2	004-	7255	42		2	0040	402	
EP 1608	599		В1	2	2007	1017										
R:	AT, B	E, CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
	IE, S	I, LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	PL,	SK,	HR
US 2005	245383		A1	2	2005	1103	1	US 2	005-	1745	33		2	0050	706	
PRIORITY APP	LN. IN	FO.:						JP 2	003-	1007	98		A 2	0030	403	
							JP 2003-100799					A 2	0030	403		
							JP 2004-76312 A 20040317									
							1	WO 2	004-	JP48:	29	1	W 2	0040	402	

AB A silica glass containing TiO2, characterized in that the fluctuation of the refractive index (Δn) is at most $2\cdot 10-4$ within the area of 30 mm to 30 mm in at least one plane. A TiO2-containing silica glass is characterized in the TiO2 concentration at least 1 weight%, and the striae pitch is at most 10 µm. An optical material for EUV lithog. is made of a silica glass containing TiO2, and the fluctuation of the refractive index (An) is at most 2.10-4 in a plane perpendicular to the incident light direction. The resulting optical material for EUV lithog, has the difference between the maximum value and the min. value of the TiO2 concentration at most 0.06 weight% in a plane perpendicular to the incident light direction.

REFERENCE COUNT:

THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 11

2004:872761 CAPLUS Full-text ACCESSION NUMBER:

10

DOCUMENT NUMBER: 141:336158

TITLE: Manufacture of fluorine-doped gitanism silicate glass for extreme UV photolithography via flame

hydrolysis and annealing

INVENTOR(S): Iwahashi, Yasutomi; Koike, Akio PATENT ASSIGNEE(S): Asahi Glass Company Limited, Japan

SOURCE: PCT Int. Appl., 39 pp. CODEN: PIXXD2

Patent. DOCUMENT TYPE: LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.		KIND DATE					ICAT					ATE				
	2004						2004	1021								0040	402
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,
		LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,	NO,
		NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,
		TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW	
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,
		BY.	KG.	KZ.	MD.	RU.	TJ,	TM.	AT.	BE.	BG.	CH.	CY.	CZ.	DE,	DK,	EE,
							HU,										
							CG,										
			TG														
JP	2005				A 20050421				JP 2	004-	7276	2		2	0040	315	
EP	1608	596			A1		2005	1228		EP 2	004-	7255	0.0		2	0040	402
	R:	AT.	BE.	CH.	DE.	DK.	ES,	FR.	GB.	GR.	IT.	LI.	LU.	NL.	SE.	MC.	PT.
							RO,										
US	2005						2005									0050	
	US 2005272590 RITY APPLN. INFO.:									003-				A 2	0030	403	
											003-				A 2		
											004-				A 2		
											004-					0040	

AB A titanium silicate glass is produced with a fictive temperature of at most 1200°, a F concentration of at least 100 ppm and a coefficient of thermal expansion of 04200 ppb/°C at 0-100°. The silicate glass is manufactured by forming a porous glass body on a target quartz glass particles obtained by flame hydrolysis of glass-forming materials (such as TiCl4 and SiCl4), then obtaining a fluorine-containing porous glass body later transformed into a vitrified non-porous body that is formed prior to carrying out an annealing treatment.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 12

ACCESSION NUMBER: 2002:672062 CAPLUS Full-text

DOCUMENT NUMBER: 137:205081

TITLE: Alkali alkaline earth titanosilicate glass for substrate of recording media and optical instruments

INVENTOR(S): Koike, Akio; Nakajima, Tetsuya; Nakao, Yasumasa;

Kobayashi, Tomoyuki; Maeda, Takashi

PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
JP 2002249336	A	20020906	JP 2001-69099		20010312
PRIORITY APPLN. INFO.:			JP 2000-98798	Α	20000331
			TD 2000_390818	Z.	20001222

AB The title glass contains \$i02 1-45, Ti02 20-50, B203 0-30, Al203 0-20, Mg0 0-20, Ca0 0-30, Sr0 0-20, Ba0 0-30, Zn0 0-20, Zr02 0-20, Li20 0-15, Na20 0-30, and K20 0-30 mol.%. The glass has high Young's modulus and expansion coefficient and is especially suitable for substrates of recording media or optical circuits and optical lenses.

L25 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 13

ACCESSION NUMBER: 2001:703326 CAPLUS Full-text DOCUMENT NUMBER: 135:246067 Full-text

TITLE: Glass for substrate, and its use in recording medium

and optical circuit part

Noike, Ario; Nakajima, Tetsuya
PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. JP 2001261365 A 20010926 A 20010926 JP 2000-84060 20000324 JP 2000-84060 20000324 PRIORITY APPLN. INFO.:

AB The glass contains Al203 10-50, CaO 20-70, SiO2 0-25, MgO 0-25, SrO 0-25, BaO 0-25, ZnO 0-25, TiO2 0-25, ZrO2 0-15, Li2O 0-15, Na2O 0-15, K2O 0-15, Y2O3 0-25, and La203 0-25 mol%. The glass may have Young's modulus ≥90GPa and average linear expansion coefficient at $50-350^{\circ} \ge 70 \times 10-7/^{\circ}$ C. The glass with high Young's modulus and expansion coefficient, is suitable for magnetic disks, optical disks, optical band-pass filters, etc.

L25 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 14 ACCESSION NUMBER: 2001:356593 CAPLUS Full-text

DOCUMENT NUMBER: 134:347490

TITLE: Glass for information recording substrate and glass

Substrate for information recording medium
INVENTOR(S): Koike, Akio; Nakajima, Tetsuya; Nakao, Yasumasa
PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 2001134925 A 20010518 JP 1999-343618 19991202 RITY APPLN. INFO:: JP 1999-238778 A 19990825 PRIORITY APPLN. INFO.:

AB A glass having a high Young's modulus and resistant to devitrification comprises $30 \le \mathrm{SiO2} \le 60$ and $1 \le \mathrm{A12O3} < 20$ and $1 \le \mathrm{MgO} < 20$, $\mathrm{CaO} \le 25$, $\mathrm{SrO} \le$ 15, $ZnO \le 20$, $TiO2 \le 10$, $ZrO2 \le 10$, $Li2O \le 15$, $Na2O \le 2$, $Y2O3 \le 25$, $La2O3 \le 25$ in mol% while A1203 + MqO < 28 and A1203 + MqO + CaO < 40 in mol%. A glass substrate for an information recording medium such as a magnetic disk or optical disk comprises the above glass.

L25 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 15

ACCESSION NUMBER: 2000:907180 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 134:65364

TITLE: Glass for magnetic recording medium and glass substrate for the medium

INVENTOR(S): Nakajima, Tetsuya; Nakao, Yasumasa; Koike, Akio

PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkvo Koho, 8 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000357318	A	20001226	JP 2000-80690	20000322
US 6387510	B1	20020514	US 2000-546609	20000410
PRIORITY APPLN. INFO.:			JP 1999-105653 A	19990413

AB The glass having Young's modulus ≥85 GPa consists of SiO2 60-72, AI2O3 2-9, MgO 3-9, CaO 2-10, SxO 0-15, ZnO 0-4, TiSO 2-0-8, ZrO2 0-4, LiZO 1-12, Na2O 0-8, KZO 0-5, YZO3 0-5, and LaZO3 0-5 mol% and the amount of LiZO, Na2O, and KZO is 4-15 mol%. The substrate for the magnetic recording medium is made of the glass and number of fixed substances with size ≥10 µm is SI/cm2 and the substances with size from ≥1 µm to <10 µm is SI05/cm2 both on the surface after 20 h in steam at 12O and 2 atmospheric The substrate with high Young's modulus and weather resistance is suitable for mass production of magnetic disks.

L25 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:338368 CAPLUS Full-text

DOCUMENT NUMBER: 145:237292

TITLE: Novel low thermal expansion material for EUV

application

AUTHOR(S): Kawata, Mitsuhiro; Takada, Akira; Hayashi, Hideaki;

Sugimoto, Naoki; Kikugawa, Shinya

CORPORATE SOURCE: Research Center, Asahi Glass Co., Ltd., 1150

Hazawa-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-8755, Japan

Proceedings of SPIE-The International Society for

Optical Engineering (2006), 6151(Pt. 1, Emerging Lithographic Technologies X), 61511A/1-61511A/7

CODEN: PSISDG: ISSN: 0277-786X

SPIE-The International Society for Optical Engineering

DOCUMENT TYPE: Journal LANGUAGE: English

SOURCE:

PUBLISHER:

AB In extreme UV (EUV) lithog, technol, ultra low thermal expansion material is required as photomask substrate. We have previously developed Ti-doped silica glass which exhibits both ultra low coefficient of thermal expansion (CTE) and high homogeneity for EUV substrate. On the other hand, we have been investigating other candidate materials which have low CTE, from the viewpoint of structural chemical Silica glass is well-known as a low thermal expansion material and the reason is explained that in the open structure of silica glass two factors, expansion and stripkage, compete with each other with

glass two factors, expansion and shrinkage, compete with each other with increase in temperature. The network of silica glass consists of tetrahedra like quartz crystal. In this structure, 5i is stably present with a valence of 4 and a coordination number of 4. We have carried out an atomistic simulation and estimated the volume change of oxide materials which may have the same structural transformation mechanism as \$102. As a result, the volume of \$0.000 with quartz structure (quartz-\$0.002), in which \$0.000 with quartz structure (quartz-\$0.002), in which \$0.000 with increase in temperature, i.e., the d. of quartz-\$0.000 increased. Thus, it was indicated that the glass with lower CTE than that of silica glass could be obtained with

substituting Sn for Si. Based on this hypothesis, we have prepared Sn-doped silica glass by Asahi silica glass producing method. The synthesized Sn-doped silica glass exhibited lower CTE than that of an ordinary silica glass.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:300276 CAPLUS Full-text

DOCUMENT NUMBER: 145:219913

TITLE: Temperature dependences of optical path length in fluorine-doped silica glass and bismuthate glass

Koike, Akio; Sugimoto, Naoki AUTHOR(S):

CORPORATE SOURCE: Research Center, Asahi Glass Co., Ltd., 1150,

Hazawa-cho, Kanagawa-ku, Yokohama-City, Kanagawa,

Japan

SOURCE: Proceedings of SPIE-The International Society for Optical Engineering (2006), 6116 (Optical Components

and Materials III), 61160Y/1-61160Y/8

CODEN: PSISDG; ISSN: 0277-786X

PUBLISHER: SPIE-The International Society for Optical Engineering

DOCUMENT TYPE: Journal LANGUAGE: English

> Temperature dependences of optical path length (dS/dT; calculated using the equation, dS/dT = dn/dT + na, where a is coefficient of thermal expansion, n is refractive index and dn/dT is temperature coefficient of refractive index) in various oxide glasses were investigated. The dS/dT is generally difficult to adjust by change of glass composition because dn/dT and a are interrelated. However, low dS/dT materials are desired for optical applications such as athermal devices, and high dS/dT materials can be used for thermo-optic devices. Pure silica glass is well-known as a typical low dS/dT material but still not sufficient. Fluorine-doped silica glass showed a lower dS/dT than that of pure silica glass. By fluorine-doping in silica glass, refractive index and dn/dT decreased but a near room temperature stayed at the same level. As a result, the dS/dT decreased with increasing fluorine concentration On the other hand, bismuthate glass showed the highest dS/dT in this study. Most glasses having high a such as tellurite glass showed neg. dn/dT. However, bismuthate glasses showed pos. dn/dT in spite of high a. As a result, bismuthate glasses showed quite high dS/dT. These results indicate that dS/dT of the glass can be controllable and that fluorine doped silica glass and bismuthate glass are appropriate candidate materials for optical applications.

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2007:374084 CAPLUS Full-text

DOCUMENT NUMBER: 146:406172

TITLE: Temperature dependences of optical path length in

inorganic glasses

AUTHOR(S): Koike, Akio; Sugimoto, Naoki

CORPORATE SOURCE: Res. Cent., Asahi Glass Co., Ltd., Japan SOURCE:

Asahi Garasu Kenkyu Hokoku (2006), 56, 1-6

CODEN: AGKHAD; ISSN: 0004-4210 PUBLISHER: Asahi Garasu K.K. Chuo Kenkvusho

DOCUMENT TYPE: Journal

LANGUAGE: English

Temperature dependences of optical path length (dS/dT; calculated using the equation, $dS/dT=dn/dT+n\alpha$, where α is the coefficient of thermal expansion, n is the refractive index and dn/dT is the temperature coefficient of refractive index) in various oxide glasses were investigated. The dS/dT is generally

difficult to be controlled by change of glass composition because dn/dT and α are interrelated. This experiment also showed that the values of dS/dT for most glasses ranged between 10 ppm/° and 20 ppm/° except for bismuthate glasses. Pure silica glass is well-known as a typical material with low dS/dT. However, fluorine-doped silica glass showed a lower dS/dT than that of pure silica glass. By fluorine-doping in silica glass, refractive index and dn/dT decreased but α staved at the same level near room temperature. As a result, the dS/dT decreased with increasing fluorine concentration On the other hand, a bismuthate glass showed the highest dS/dT in this study. Although most glasses having high a such as tellurite glass showed neg. dn/dT, bismuthate glasses showed pos. dn/dT in spite of high α . It was assumed that bismuthate glass showed high dn/dT due to high polarizability of Bi203 which is similar to PbO. These results indicate that dS/dT of glass can be designed by considering the electronic configuration of its components and the glass structure.

L25 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2008 ACS on STN 1973:432751 CAPLUS Full-text ACCESSION NUMBER:

DOCUMENT NUMBER: 79:32751 ORIGINAL REFERENCE NO.: 79:5319a,5322a

TITLE: Photosensitive coating compositions containing

pigments

INVENTOR(S): Takimoto, Yasuyuki; Umeda, Yasushi

PATENT ASSIGNEE(S): Nippon Paint Co., Ltd.

SOURCE: Jpn. Kokai Tokkvo Koho, 5 pp.

CODEN: JKXXAF DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48028037	A	19730413	JP 1971-61797	19710814
JP 50028094	В	19750912		
PRIORITY APPLN. INFO.:			JP 1971-61797 A	19710814

Pigmented, photosensitive poly(vinyl alc.) (I) [9002-89-5] coating compns. could be cured in the presence of ammonium dichromate [7789-09-5] and basic lead silicochromate [11097-70-4] to give coatings with better resistance to solvent, water, and weather than com. acrylic latex paints. For example, a photosensitive resin solution was prepared from I (degree of saponification 88 mole%) 120, water 680, acrylonitrile [107-13-1] 86, Et acrylate [140-88-5] 70, and diacetyl 0.3 part. A paste (553 parts) from clay 200, CaCO3 60, 25% aqueous anionic surfactant 10, HOCH2CH2OH 20, o-C6H4(CO2Bu)2 20, octyl alc. 0.5, 2% aqueous Methocel 50, and water 100 parts was mixed with 200 parts Tion to give a pigment composition which was mixed with the resin solution 274, 30% aqueous ammonium dichromate 76, and basic Pb silicochromate 50 parts to give a coating composition The composition was used alone or together with com. acrylic latex paints.

L25 ANSWER 20 OF 24 WPIX COPYRIGHT 2008 THE THOMSON CORP on STN ACCESSION NUMBER: 2007-380717 [36] WPIX DOC. NO. CPI: C2007-137669 [36]

DOC. NO. NON-CPI: N2007-284544 [36] TITLE:

Processing of porous glass used in manufacture of optical material, involves controlling pressure of space between chamber and furnace core pipe higher than pressure in

furnace core pipe, while supplying inert gas to space

DERWENT CLASS: L01; S02; U11; X25

INOGUCHI H; IWAHASHI Y; MATSUMOTO I; NAGANO T; OGAWA T INVENTOR: PATENT ASSIGNEE: (ASAG-C) ASAHI GLASS CO LTD

COUNTRY COUNT:

PATENT INFO ABBR.:

PATENT NO KIND DATE WEEK LA PG MAIN IPC JP 2007051020 A 20070301 (200736)* JA 11[1]

APPLICATION DETAILS:

PATENT NO KIND APPLICATION DATE

JP 2007051020 A JP 2005-236549 20050817

controlled higher than the pressure in the furnace core pipe.

PRIORITY APPLN. INFO: JP 2005-236549 AN 2007-380717 [36] WPIX

AB JP 2007051020 A UPAB: 20070608

NOVELTY - A process gas is supplied to a furnace core pipe (12) in which porous glass is accommodated. The furnace core pipe is installed in a chamber (14) provided with a heater (28), and sealed by a seal portion (16) having heat resistance and air permeability. While supplying an inert gas to the space (34) between chamber and furnace core pipe, the pressure of the space is

20050817

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for processing apparatus (10) of porous glass.

USE - For processing porous glass used in manufacture of optical material used for optical lithography using extreme UV light as exposure light source.

ADVANTAGE - The method enables efficient processing of porous glass without requiring a large-sized heating furnace.

DESCRIPTION OF DRAWINGS - The figure shows the partial cross-section of the processing apparatus. (Drawing includes non-English language text)

Processing apparatus (10) Furnace core pipe (12)

Chamber (14)

Seal portion (16)

Space (34)

L25 ANSWER 21 OF 24 WPIX COPYRIGHT 2008 THE THOMSON CORP on STN

ACCESSION NUMBER: 2007-214653 [22] WPIX DOC. NO. CPI: C2007-078821 [22] DOC. NO. NON-CPI: N2007-159524 [22] TITLE:

Manufacture of porous titania-silica vitreous

material for optical component, involves rotating glass particles-deposited master rod suspended by rotation mechanism, and growing porous vitreous material at preset

conditions

DERWENT CLASS: L01; U11

INVENTOR: 1MAHASHI 7; NAGANO T; SOMEYA K
PATENT ASSIGNEE: (ASAG-C) ASAHI GLASS CO LTD
COUNTRY COUNT: 1

PATENT INFO ABBR.:

PATENT NO KIND DATE WEEK LA PG MAIN IPC

JP 2007045638 A 20070222 (200722)* JA 7[3]

APPLICATION DETAILS:

PATENT NO KIND APPLICATION DATE

JP 2007045638 A

JP 2005-228589 20050805

PRIORITY APPLN. INFO: JP 2005-228589 AN 2007-214653 [22] WPIX

20050805

AR

JP 2007045638 A UPAB: 20070402

NOVELTY - Glass particles of titania-silica vitreous material are deposited at master rod (12). The rod suspended by rotation mechanism (16), is rotated at 25 rpm or more. Growth of porous titania-silica vitreous material is carried out at 5 kg or more in a state at which intrinsic frequency (f1) is more than oscillation number (f2) of rotating mechanism. The frequency (f1) is reduced and number (f2) is made unstable by weight increase of porous titaniasilica vitreous material growth. Thus, manufacture of porous titania-silica vitreous material is enabled.

USE - For manufacturing porous titania-silica vitreous material used for manufacturing optical component used for optical lithography such as extreme ultraviolet light lithography.

ADVANTAGE - The porous titania-silica vitreous material of required weight is efficiently manufactured.

DESCRIPTION OF DRAWINGS - The figure shows the structural drawing of master-rod rotating mechanism of porous titania-silica vitreous material manufacturing apparatus.

Master rod (12)

Rotation mechanism (16)

Burner (18)

Front-end of master rod (20)

Support (22)

L25 ANSWER 22 OF 24 WPIX COPYRIGHT 2008 THE THOMSON CORP on STN

ACCESSION NUMBER: 2004-114776 [12] WPIX
DOC. NO. CPI: C2004-047057 [12]
DOC. NO. NON-CPI: N2004-091509 [12]
TITLE: Optical element such as optical fiber grating, etalon, contains glass component optionally containing alkali metal oxide, which has small optical path length change

with respect to temperature change

L01: P81: V07 DERWENT CLASS:

INVENTOR: KOIKE A; SUGIMOTO N

PATENT ASSIGNEE: (ASAG-C) ASAHI GLASS CO LTD COUNTRY COUNT: 1

PATENT INFO ABBR.:

PATENT NO KIND DATE WEEK LA PG MAIN IPC

JP 2004021089 A 20040122 (200412)* JA 6[0]

APPLICATION DETAILS:

PATENT NO KIND APPLICATION DATE

JP 2004021089 A JP 2002-178470 20020619

PRIORITY APPLN. INFO: JP 2002-178470 20020619

AN 2004-114776 [12] WPIX

JP 2004021089 A UPAB: 20050528

NOVELTY - The optical element contains glass component having small optical path length change with respect to temperature change. The glass component optionally contains 1% or less of alkali metal oxide.

DETAILED DESCRIPTION - The optical element suitable for light of wavelength 450-1700 nm, contains glass as a component. The glass component has dS/dT (optical path length change/temperature change) of 8.9-10-6/degreesC or less satisfying the relation DS/dT = dn/dT+n(alpha), where dn/dT is temperature change rate at 25degreesC, alpha is coefficient of linear expansion at 25degreesC and n is refractive index with respect to light of wavelength 1550 nm. The glass component optionally contains 1% or less of alkali metal oxide. The glass contains 90-98.8 mass% silica, 1.2-10% fluorine, 0-8 mass% each of borate, alumina, phosphorous pentoxide and titania.

USE - Optical elements such as optical fiber grating, etalon (claimed), optical lens and prism.

ADVANTAGE - An optical element containing glass component with low alkali metal oxide content and small optical path length change with respect to temperature change, is obtained.

L25 ANSWER 23 OF 24 WPIX COPYRIGHT 2008 THE THOMSON CORP on STN

CROSS REFERENCE:

ACCESSION NUMBER: 1998-232576 [21] WPIX 1999-424746

DOC. NO. CPI: TITLE:

C1998-072656 [21] Method for removing thin film using ammonium or alkali metal salt or acid salt - by applying powder or solution

to a thin film formed on substrate such as automobile glass and heating, where film is oxide of e.g. cobalt or mitanium on window glass of automobile

DERWENT CLASS: 1.01

INVENTOR: TAKIMOTO Y

(ASAG-C) ASAHI GLASS CO LTD PATENT ASSIGNEE:

COUNTRY COUNT: 2.3

PATENT INFO ABBR.:

PA:	TENT NO	KINI	DATE	WEEK	LA	PG	MAIN	IPC
EP	838442	A1	19980429	(199821)*	EN	6[6]		
US	6153535	A	20001128	(200063)	EN			
EP	838442	В1	20010131	(200108)	EN			
DE	69704013	F	20010308	(200121)	DE			

APPLICATION DETAILS:

PATE	NT NO	KIND	APE	LICATION	DATE
US 6	38442 A1 153535 A		US	1997-118450 1997-955742	19971022
EP 8	9704013 E 38442 B1 59704013 E		EΡ	1997-6970401 1997-118450 1997-118450	19971023

FILING DETAILS:

PATENT	NO	KIN	D		PAT	ENT	ИО		
									-
DE 6970	04013	E	Based	on	EP	8384	142	A	

PRIORITY APPLN. INFO: JP 1996-281068 19961023

AN 1998-232576 [21] WPIX

CR 1999-424746

AB EP 838442 A1 UPAB: 20050521

> A thin film is removed from a substrate by applying a powder or solution of a salt and heating to remove the film from the applied region, wherein the salt has some or all of the hydrogen ions of the acid replaced by ammonium or alkali metal ions.

ADVANTAGE - The film is removed without the need to mask the surrounding regions, and can also include a metal nitride or a metal.

Member (0002)

ABEQ US 6153535 A UPAB 20050521

A thin film is removed from a substrate by applying a powder or solution of a salt and heating to remove the film from the applied region, wherein the salt has some or all of the hydrogen ions of the acid replaced by ammonium or alkali metal ions.

ADVANTAGE - The film is removed without the need to mask the surrounding regions, and can also include a metal nitride or a metal.

Member (0003)

ABEQ EP 838442 B1 UPAB 20050521

A thin film is removed from a substrate by applying a powder or solution of a salt and heating to remove the film from the applied region, wherein the salt has some or all of the hydrogen ions of the acid replaced by ammonium or alkali metal ions.

ADVANTAGE - The film is removed without the need to mask the surrounding regions, and can also include a metal nitride or a metal.

L25 ANSWER 24 OF 24 WPIX COPYRIGHT 2008 THE THOMSON CORP on STN

ACCESSION NUMBER: 1997-402432 [37] WPIX DOC. NO. CPI: C1997-129815 [37] DOC. NO. NON-CPI: N1997-334735 [37]

TITLE: Lithographic plate material for laser direct make-up comprises recording layer which includes

particulate-dispersed thermoplastic polymer matrix, and

is obtainable by pulsed-laser irradiation A26; A89; G07; P75; S06

DERWENT CLASS: INVENTOR:

ARIMATSU S; HIRAOKA H; KONISHI K; TAKIMOTO Y PATENT ASSIGNEE: (NIPA-C) NIPPON PAINT CO LTD

COUNTRY COUNT: 19

PATENT INFO ABBR.:

P	ATENT	NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC
	0 972 P 095				(199737)* (199918)		33[0]		

APPLICATION DETAILS:

PATENT NO	KIND	APE	LICATION	DATE
WO 9728007 A1		WO	1997-JP268 1	.9970204
JP 09527498 X		JP	1997-527498	19970204
JP 09527498 X		WO	1997-JP268 1	.9970204

FILING DETAILS:

PATENT NO	KIND	PATENT NO
JP 09527498 X	Based on	WO 9728007 A

PRIORITY APPLN. INFO: JP 1996-18666

19960205

AN 1997-402432 [37] WPIX

AB

WO 1997028007 A1 UPAB: 20050518

A lithographic plate material for laser direct make-up that comprises a recording layer is obtainable by pulsed-laser irradiation, which includes a thermoplastic polymer matrix with an absorption band in the UV region and particulates dispersed in it.

Also claimed is an offset printing method using the above lithographic plate material, including the steps of (a) manufacturing the plate material; (b) hydrophilicising the irradiated parts of the material by irradiating the surface of the recording laver with a pulsed laser to give the corresponding image; and (c) printing by application of ink for lithographic printing onto the surface of the recording layer and then printing.

USE - The lithographic plate material is for use in the printing industry.

ADVANTAGE - The recording layer of the lithographic plate material has superior print recovery properties, and such plate material provides good water retentivity in parts of the recording layer surface irradiated by laser, with hardly any scumming, thereby leading to lower printing costs and a cleaner print environment.

Member (0002)

ABEO JP 09527498 X UPAB 20050518

A lithographic plate material for laser direct make-up that comprises a recording layer is obtainable by pulsed-laser irradiation, which includes a thermoplastic polymer matrix with an absorption band in the UV region and particulates dispersed in it.

Also claimed is an offset printing method using the above lithographic plate material, including the steps of (a) manufacturing the plate material; (b) hydrophilicising the irradiated parts of the material by irradiating the surface of the recording laver with a pulsed laser to give the corresponding image; and (c) printing by application of ink for lithographic printing onto the surface of the recording layer and then printing.

USE - The lithographic plate material is for use in the printing industry.

ADVANTAGE - The recording layer of the lithographic plate material has superior print recovery properties, and such plate material provides good water retentivity in parts of the recording layer surface irradiated by laser, with hardly any scumming, thereby leading to lower printing costs and a cleaner print environment.

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(FILE 'HOME' ENTERED AT 09:51:41 ON 26 MAR 2008)

FILE 'REGISTRY' ENTERED AT 09:51:56 ON 26 MAR 2008 STR

L2 0 SEA SSS SAM L1 L3 32 SEA SSS FUL L1

FILE 'CAPLUS' ENTERED AT 09:54:21 ON 26 MAR 2008 4 SEA ABB=ON PLU=ON L3 L4

DIS

	DIS
L5	FILE 'REGISTRY' ENTERED AT 09:54:36 ON 26 MAR 2008 STR L1
L6 L7 L8	FILE 'WPIX' ENTERED AT 09:55:03 ON 26 MAR 2008 0 SEA SSS FUL L5 9 SEA SSS FUL L5 3 SEA ABB=ON PLU=ON L7/DCR
L9 L10	FILE 'MARPAT' ENTERED AT 09:55:36 ON 26 MAR 2008 6 SEA SSS SAM L5 STR L5
L11 L12 L13	1 SEA SSS SAM L12 D SCA
L15 L16	
	FILE 'CAPLUS, DISSABS, CONFSCI, WPIX' ENTERED AT 10:08:15 ON 26 MAR 2008 E KOIKE A/AU
L17	945 SEA ABB=ON PLU=ON ("KOIKE A"/AU OR "KOIKE A A G C L"/AU OR "KOIKE A D C"/AU OR "KOIKE A M M"/AU OR "KOIKE A S C E I"/AU OR "KOIKE A U"/AU OR "KOIKE AKIO"/AU) E IWAHASHI Y/AU
L18	
L19	
L20	
L21 L*** L22 L23	
	FILE 'CAPLUS' ENTERED AT 10:12:11 ON 26 MAR 2008 D QUE L4
	FILE 'WPIX' ENTERED AT 10:12:20 ON 26 MAR 2008 D QUE L8
	FILE 'MARPAT' ENTERED AT 10:12:27 ON 26 MAR 2008

FILE 'BEILSTEIN' ENTERED AT 10:12:34 ON 26 MAR 2008 D QUE L16

D QUE L14

FILE 'CAPLUS, WPIX, MARPAT' ENTERED AT 10:12:41 ON 26 MAR 2008 L24 19 DUP REM L4 L8 L14 (3 DUPLICATES REMOVED)

ANSWERS '1-4' FROM FILE CAPLUS ANSWER '5' FROM FILE WPIX ANSWERS '6-19' FROM FILE MARPAT D L24 IBIB ABS HITSTR 1-5

D L24 IBIB ABS QHIT 6-19

FILE 'CAPLUS, DISSABS, CONFSCI, WPIX' ENTERED AT 10:14:16 ON 26 MAR 2008

D QUE L23 L25 24 DUP REM L2

24 DUP REM L23 (15 DUPLICATES REMOVED)

ANSWERS '1-19' FROM FILE CAPLUS

ANSWERS '20-24' FROM FILE WPIX

D L25 IBIB ABS TOT